

- Rebuilding or remanufacturing machinery (e.g., automobile engines)
- Ship repair and renovation
- Tyre retreading.

Conversely, there are activities that are sometimes considered manufacturing, but which for NACE are classified in another section, (i.e., not classified as manufacturing). They include:

- Logging, classified in section A (Agriculture, Hunting and Forestry)
- Benification of ores and other minerals, classified in section C (Mining)
- The construction of structures and fabricating operations performed at the site of construction classified in section F (Construction)
- The activity of breaking of bulk and redistribution in smaller lots, including packaging, repackaging or bottling of products, such as liquors or chemicals; the customized assembly of computers; sorting of scrap; mixing of paints to customer order; and cutting of metals to customer order, produce a modified version of the same product, not a new product and is classified to section G (Wholesale and Retail Trade).

Subsection DA

Manufacture of food products, beverages and tobacco

The food industry processes the products of agriculture, animal husbandry and fishing into food and drink for humans or animals, and includes the production of various intermediate products, which are not directly food products. The activity often generates associated products of greater or lesser value (e.g. hides from slaughtering or oilcake from oil production).

Each division is organised by activities dealing with different kinds of products: meat, fish, fruit and vegetables, fats and oils, milk products, grain milling, animal feeds, other food products, beverages, tobacco. Production can be done for own account, as well as for third parties, such as custom slaughtering

Some activities are considered manufacturing e.g. bakeries, pastry shops, and prepared meat shops, etc. which sell their own production, even though there is retail sale of the products in their own shop. However, where the processing is minimal and does not lead to a real transformation (e.g. butchers, fishmongers, etc.) the unit is classified to (section G: Wholesale and retail trade; ...).

The treatment of slaughter waste to produce animal feeds is classified in 15.7, while processing food, beverages and tobacco waste into secondary raw material is classified to 37.20, and disposal of food, beverages and tobacco waste in 90.

15 Manufacture of food products and beverages

15.1 Production, processing and preserving of meat and meat products

15.11 Production and preserving of meat

This class includes:

- production of fresh, chilled or frozen meat, in carcasses
- production of fresh, chilled or frozen meat, in cuts

This class also includes:

- production of hides and skins originating from slaughterhouses, including fellmongery
- rendering of edible fats of animal origin
- processing of animal offal
- production of pulled wool

This class excludes:

- *rendering of edible poultry fats, see 15.12*
- *packaging of meat for own account by the wholesale trade, see 51.32*
- *packaging of meat on a fee or contract basis, see 74.82*

15.12 Production and preserving of poultrymeat

This class includes:

- slaughtering of poultry

- preparation of poultrymeat
- production of fresh or frozen poultrymeat in individual portions
- rendering of edible poultry fats

This class also includes:

- slaughtering of rabbits and the like
- preparation of rabbit meat and the like
- production of feathers and down

This class excludes:

- *packaging of poultrymeat for own account by the wholesale trade, see 51.32*
- *packaging of poultrymeat on a fee or contract basis, see 74.82*

15.13 Production of meat and poultrymeat products

This class includes:

- production of dried, salted or smoked meat
- production of meat products:
 - sausages, salami, puddings, 'andouillettes', saveloys, bolognas, pâtés, galentines, rillettes, boiled ham, meat extracts and juices
- production of prepared meat dishes

This class excludes:

- *packaging of meat and poultrymeat for own account by the wholesale trade, see 51.32*
- *packaging of meat and poultrymeat on a fee or contract basis, see 74.82*

15.2 Processing and preserving of fish and fish products

15.20 Processing and preserving of fish and fish products

This class includes:

- preparation and preservation of fish, crustaceans and molluscs: freezing, deep-freezing, drying, smoking, salting, immersing in brine, canning, etc.
- production of fish, crustacean and mollusc products: cooked fish, fish fillets, roes, caviar, caviar substitutes, etc.
- production of prepared fish dishes
- production of fish-meal for animal feed

This class also includes:

- activities of vessels only engaged in the processing and preserving of fish

This class excludes:

- *activities of vessels engaged both in fishing, processing and preserving of fish, see 05.01*
- *production of oils and fats from marine material, see 15.41*
- *manufacture of fish soups, see 15.89*

15.3 Processing and preserving of fruit and vegetables

15.31 Processing and preserving of potatoes

This class includes:

- production of prepared frozen potatoes
- production of dehydrated mashed potatoes
- production of potato snacks
- production of potato crisps
- manufacture of potato flour and meal

This class also includes:

- industrial peeling of potatoes

15.32 Manufacture of fruit and vegetable juice

This class also includes:

- production of concentrates

15.33 Processing and preserving of fruit and vegetables n.e.c.

This class includes:

- preserving of fruit, nuts or vegetables: freezing, drying, immersing in oil or in vinegar, canning, etc.
- manufacture of fruit or vegetable food products
- manufacture of jams, marmalades and table jellies

This class excludes:

- *manufacture of flour or meal of dried leguminous vegetables, see 15.61*
- *preservation of fruit and nuts in sugar, see 15.84*

15.4 Manufacture of vegetable and animal oils and fats

Manufacture of crude oils and fats (Class 15.41) includes production of crude vegetable oils and fats, not chemically modified as well as production of animal oils and fats, crude or refined, not chemically modified.

Manufacture of refined oils and fats (Class 15.42) includes production of refined vegetable oils and fats as well as production of animal or vegetable fats and oils and their fractions, partly or wholly hydrogenated, inter-esterified, re-esterified or elaidinized, whether or not refined, but not further prepared.

15.41 Manufacture of crude oils and fats

This class includes:

- production of crude vegetable oils: olive oil, soya-bean oil, palm oil, sunflower-seed oil, cotton-seed oil, rape, colza or mustard oil, linseed oil, etc.
- production of non-defatted flour or meal of oilseeds, oil nuts or oil kernels

This class also includes:

- production of non-edible animal oils and fats
- extraction of fish and marine mammal oils

Note:

Cotton linters, oilcakes and other residual products of oil production are by-products of this class

This class excludes:

- *rendering and refining of lard and other edible animal fats, see 15.11*
- *wet corn milling, see 15.62*
- *manufacture of essential oils, see 24.63*

15.42 Manufacture of refined oils and fats

This class includes:

- production of refined vegetable oils: olive oil, soya-bean oil, etc.
- processing of vegetable oils: blowing, boiling, oxidation, polymerization, dehydration, hydrogenation, etc.

This class excludes:

- *production of olive oil from self-produced olives, see 01.13*
- *production of non-edible animal oils and fats, see 15.41*
- *extraction of fish and marine mammal oils, see 15.41*

15.43 Manufacture of margarine and similar edible fats

This class includes:

- manufacture of margarine
- manufacture of melanges and similar spreads
- manufacture of compound cooking fats

15.5 Manufacture of dairy products

15.51 Operation of dairies and cheese making

This class includes:

- production of fresh liquid milk, pasteurized, sterilized, homogenized and/or ultra heat treated
- production of milk-based softdrinks
- production of cream from fresh liquid milk, pasteurized, sterilized, homogenized
- manufacture of dried or concentrated milk whether or not sweetened
- production of butter
- production of yoghurt
- production of cheese and curd
- production of whey
- production of casein or lactose

This class excludes:

- *production of raw cow milk, see 01.21*

15.52 Manufacture of ice cream

This class includes:

- production of ice cream and other edible ice such as sorbet

This class excludes:

- *activities of ice cream parlours, see 55.30*

15.6 Manufacture of grain mill products, starches and starch products

15.61 Manufacture of grain mill products

This class includes:

- grain milling: production of flour, groats, meal or pellets of wheat, rye, oats, maize (corn) or other cereal grains
- rice milling: production of milled, polished, glazed, parboiled or converted rice; production of rice flour
- vegetable milling: production of flour or meal of dried leguminous vegetables, of roots or tubers, or of edible nuts
- manufacture of cereal breakfast foods
- manufacture of prepared blended flour for bread, cakes, biscuits or pancakes

This class excludes:

- *manufacture of potato flour and meal, see 15.31*
- *wet corn milling, see 15.62*

15.62 Manufacture of starches and starch products

This class includes:

- manufacture of starches from rice, potatoes, maize, etc.
- wet corn milling
- manufacture of glucose, glucose syrup, maltose, etc.
- manufacture of gluten
- manufacture of tapioca
- manufacture of corn oil

This class excludes:

- *manufacture of lactose, see 15.51*
- *production of cane or beet sugar, see 15.83*

15.7 Manufacture of prepared animal feeds

15.71 Manufacture of prepared feeds for farm animals

This class includes:

- manufacture of prepared feeds for farm animals, including animal feed supplements
- preparation of unmixed (single) feeds for farm animals

This class excludes:

- *production of fishmeal for animal feed, see 15.20*
- *production of oilseed cake, see 15.41*

15.72 Manufacture of prepared pet foods

15.8 Manufacture of other food products

15.81 Manufacture of bread; manufacture of fresh pastry goods and cakes

This class includes:

- manufacture of bread and rolls
- manufacture of fresh pastry, cakes, pies, tarts, etc.

This class excludes:

- *manufacture of farinaceous products (pastas), see 15.85*

15.82 Manufacture of rusks and biscuits; manufacture of preserved pastry goods and cakes

This class includes:

- manufacture of rusks and biscuits and 'dry' bakery products
- manufacture of preserved pastry goods and cakes
- manufacture of snack products whether sweet or salted

15.83 Manufacture of sugar

This class includes:

- manufacture or refining of sugar (sucrose) and sugar substitutes from the juice of cane, beet, maple and palm

This class excludes:

- *manufacture of glucose, glucose syrup, maltose, see 15.62*

15.84 Manufacture of cocoa; chocolate and sugar confectionery

This class includes:

- manufacture of cocoa, cocoa butter, cocoa fat, cocoa oil
- manufacture of chocolate and chocolate confectionery
- manufacture of sugar confectionery
- manufacture of chewing-gum
- preserving in sugar of fruit, nuts, fruit-peels and other parts of plants
- manufacture of confectionery lozenges and pastilles

This class excludes:

- *production of sucrose sugar, see 15.83*

15.85 Manufacture of macaroni, noodles, couscous and similar farinaceous products

This class includes:

- manufacture of pastas such as macaroni and noodles, whether or not cooked or stuffed
- manufacture of couscous

15.86 Processing of tea and coffee

This class includes:

- decaffeination and roasting of coffee
- production of coffee products:
 - ground coffee
 - soluble coffee
 - extracts and concentrates of coffee
- manufacture of coffee substitutes
- blending of tea and mate
- packing of tea including packing in tea-bags

This class also includes:

- manufacture of herb infusions (mint, vervain, camomile, etc.)

This class excludes:

- *manufacture of tea associated with tea plantations, see 01.13*

- *manufacture of herb infusions if they are considered medical products, see 24.42*

15.87 Manufacture of condiments and seasonings

This class includes:

- manufacture of spices, sauces and condiments:
 - mayonnaise
 - mustard flour and meal
 - prepared mustard, etc.
- manufacture of vinegar

This class excludes:

- *growing of spice crops, see 01.13*
- *manufacture of table salt, see 14.40*

15.88 Manufacture of homogenized food preparations and dietetic food

This class includes:

- manufacture of foods for particular nutritional uses (Council Directive, OJ No L 186, 30. 6. 1989):
 - infant formulae
 - follow-up milk and other follow-up foods
 - baby foods
 - low-energy and energy-reduced foods intended for weight control
 - dietary foods for special medical purposes
 - low-sodium foods, including low-sodium or sodium-free dietary salts
 - gluten-free foods
 - foods intended to meet the expenditure of intense muscular effort, especially for sportsmen
 - foods for persons suffering from carbohydrate metabolism disorders (diabetes)

15.89 Manufacture of other food products n.e.c.

This class also includes:

- manufacture of soups and broths
- manufacture of yeast, powdered or reconstituted eggs, etc.
- manufacture of food products enriched by vitamins, proteins, etc.

15.9 Manufacture of beverages

15.91 Manufacture of distilled potable alcoholic beverages

This class includes:

- manufacture of distilled, potable, alcoholic beverages: whisky, brandy, gin, liqueurs, etc.

This class excludes:

- *manufacture of non-distilled alcoholic beverages, see 15.92, 15.93, 15.94*

15.92 Production of ethyl alcohol from fermented materials

This class includes:

- production of ethyl alcohol from fermented materials
- production of neutral spirits

15.93 Manufacture of wines

This class includes:

- manufacture of wine:
 - table wine
 - QWPSR wine (quality wine produced in specified regions)
- manufacture of sparkling wine
- manufacture of wine from concentrated grape must

This class also includes:

- manufacture of low or non-alcoholic wine

This class excludes:

- *production of wine from self-produced grapes, see 01.13*
- *bottling and packaging without transformation of the wine, see 51.34, 74.82*

15.94 Manufacture of cider and other fruit wines

This class includes:

- manufacture of cider, perry, mead, other fruit wines and mixed beverages containing alcohol

15.95 Manufacture of other non-distilled fermented beverages

This class includes:

- manufacture of vermouth and the like

15.96 Manufacture of beer

This class also includes:

- manufacture of low or non-alcoholic beer

15.97 Manufacture of malt

15.98 Production of mineral waters and soft drinks

This class includes:

- production of natural mineral waters
- production of soft drinks:
 - non-alcoholic flavoured and/or sweetened waters: lemonade, orangeade, cola, energy drinks, fruit drinks, tonic waters, etc.

This class excludes:

- *production of fruit and vegetable juice, see 15.32*

16 Manufacture of tobacco products

16.0 Manufacture of tobacco products

16.00 Manufacture of tobacco products

This class includes:

- manufacture of tobacco products: cigarettes, cigarette tobacco, cigars, pipe tobacco, chewing tobacco, snuff
- manufacture of "homogenized" or "reconstituted" tobacco

This class excludes:

- *growing or preliminary processing of tobacco, see 01.11*

Subsection DB Manufacture of textiles and textile products

17 Manufacture of textiles

This division includes preparation and spinning of textile fibres as well as textile weaving, finishing of textiles and wearing apparel, manufacture of made-up textile articles, except apparel (e.g. household linen, blankets, rugs, cordage, etc.) and manufacture of knitted and crocheted fabrics and articles thereof (e.g. socks and pullovers). Growing of natural fibres falls under division 01 (Agriculture), while manufacture of synthetic fibres is a chemical process which has to be classified in class 24.70 (Manufacture of man-made fibres). Manufacture of wearing apparel falls under division 18.

17.1 Preparation and spinning of textile fibres

17.11 Preparation and spinning of cotton-type fibres

This class includes:

- preparatory operations on cotton-type fibres, carding and combing

- manufacture of cotton-type yarn, either with cotton or artificial or synthetic fibres, for weaving, knitting, etc.

This class excludes:

- *manufacture of sewing thread, see 17.16*

17.12 Preparation and spinning of woollen-type fibres

This class includes:

- preparatory operations on woollen-type fibres: degreasing and carbonizing of wool, carding
- manufacture of woollen-type yarns, either with wool or artificial or synthetic fibres, for weaving, knitting, etc.

17.13 Preparation and spinning of worsted-type fibres

This class includes:

- combing of worsted-type fibres
- manufacture of worsted-type yarns, either with wool or artificial or synthetic fibres, for weaving, knitting, etc.
- preparation and spinning of semi-worsted-type (carded but not fully combed) fibres

17.14 Preparation and spinning of flax-type fibres

This class includes:

- scutching of flax
- manufacture of flax-type yarns, either with flax or artificial or synthetic fibres, for weaving, knitting, etc.

17.15 Throwing and preparation of silk, including from noils, and throwing and texturing of synthetic or artificial filament yarns

This class includes:

- reeling, washing and throwing of silk
- carding and combing of silk waste
- manufacture of silk-type yarns, either with silk or artificial or synthetic fibres, for weaving, knitting, etc.
- texturizing, twisting, folding, cabling and dipping of synthetic or artificial filament yarns

17.16 Manufacture of sewing threads

This class includes:

- manufacture of sewing thread of any textile material, including mixtures

This class excludes:

- *manufacture of knitting and crocheting yarn, see 17.11 to 17.15, 17.17*

17.17 Preparation and spinning of other textile fibres

This class includes:

- preparatory operations and spinning of other textile fibres, such as jute or bast fibres

This class also includes:

- manufacture of paper yarn

This class excludes:

- *manufacture of synthetic or artificial fibres and tows, manufacture of single yarns (including high tenacity yarn and yarn for carpets) of synthetic or artificial fibres, see 24.70*
- *manufacture of glass fibres, see 26.14*
- *spinning of asbestos yarn, see 26.82*

17.2 Textile weaving

17.21 Cotton-type weaving

This class includes:

- manufacture of broad woven cotton-type fabrics, either with cotton or artificial or synthetic yarns

This class also includes:

- manufacture of woven pile or chenille fabrics, terry towelling, gauze, etc.

This class excludes:

- *manufacture of textile floor coverings, see 17.51*
- *manufacture of non-wovens, see 17.53*
- *manufacture of narrow fabrics, see 17.54*
- *manufacture of knitted and crocheted fabrics, see 17.60*

17.22 Woollen-type weaving

This class includes:

- manufacture of broad woven woollen-type fabrics, either with wool or artificial or synthetic yarns

This class excludes:

- *manufacture of textile floor coverings, see 17.51*
- *manufacture of non-wovens, see 17.53*
- *manufacture of knitted and crocheted fabrics, see 17.60*

17.23 Worsted-type weaving

This class includes:

- manufacture of broad woven worsted-type fabrics, either with wool or artificial or synthetic yarns

This class excludes:

- *manufacture of textile floor coverings, see 17.51*
- *manufacture of non-wovens, see 17.53*
- *manufacture of knitted and crocheted fabrics, see 17.60*

17.24 Silk-type weaving

This class includes:

- manufacture of broad woven silk-type fabrics either with silk or artificial or synthetic yarns

This class excludes:

- *manufacture of non-wovens, see 17.53*

17.25 Other textile weaving

This class includes:

- manufacture of other broad woven fabrics, using flax, ramie, hemp, jute, bast fibres and special yarns
- manufacture of polypropylene fabrics

This class also includes:

- manufacture of woven fabrics of glass fibres

This class excludes:

- *manufacture of textile floor coverings, see 17.51*
- *manufacture of non-wovens, see 17.53*
- *weaving of asbestos yarn, see 26.82*

17.3 Finishing of textiles

17.30 Finishing of textiles

This class includes:

- bleaching, dyeing and printing (including thermoprinting) of not self-produced textile fibres, yarns, fabrics and textile articles, including wearing apparel
- dressing, drying, steaming, shrinking, mending, sanforizing, mercerizing of not self-produced textiles and textile articles, including wearing apparel

This class also includes

- finishing of leather wearing apparel
- bleaching of jeans

- pleating and similar work on textiles

This class excludes:

- *finishing of textile articles made from self-produced materials, see 17.1, 17.2, 17.5*
- *while-you-wait printing on textile articles, see 52.74*

17.4 Manufacture of made-up textile articles, except apparel

17.40 Manufacture of made-up textile articles, except apparel

This class includes:

- manufacture of made-up articles of any textile material, including of knitted or crocheted fabrics:
 - blankets, including travelling rugs
 - bed, table, toilet or kitchen linen
 - quilts, eiderdowns, cushions, pouffes, pillows, sleeping bags, etc.
- manufacture of made-up furnishing articles:
 - curtains, valances, blinds, bedspreads, furniture or machine covers, etc.
 - tarpaulins, tents, camping goods, sails, sun blinds, loose covers for cars, etc.
 - flags, banners, pennants, etc.
 - dustcloths, dishcloths and similar articles, life jackets, parachutes, etc.

This class also includes:

- manufacture of the textile part of electric blankets

This class excludes:

- *manufacture of textile articles for technical use, see 17.54*

17.5 Manufacture of other textiles

17.51 Manufacture of carpets and rugs

This class includes:

- manufacture of textile including needleloom felt floor coverings:
 - carpets, rugs and mats, tiles

This class excludes:

- *manufacture of mats and matting of plaiting materials, see 20.52*
- *manufacture of floor coverings of cork, rubber or plastic materials, even when textile backed, see 20.52, 25.13, 25.23*
- *manufacture of linoleum and hard non-plastic surface floor coverings, see 36.63*

17.52 Manufacture of cordage, rope, twine and netting

This class includes:

- manufacture of twine, cordage, rope and cables of textile fibres or strip or the like, whether or not impregnated, coated, covered or sheathed with rubber or plastics
- manufacture of knotted netting of twine, cordage or rope
- manufacture of products of rope or netting: fishing nets, ships' fenders, unloading cushions, loading slings, rope or cable fitted with metal rings, etc.

This class excludes:

- *manufacture of hairnets, see 18.24*

17.53 Manufacture of non-wovens and articles made from non-wovens, except apparel

17.54 Manufacture of other textiles n.e.c.

This class includes:

- manufacture of narrow woven fabrics, including fabrics consisting of warp without weft assembled by means of an adhesive
- manufacture of felt
- manufacture of labels, badges, etc.
- manufacture of ornamental trimmings:
 - braids, tassels, pompons, etc.
- manufacture of tulles and other net fabrics, and of lace and embroidery, in the piece, in strips or

in motifs

- manufacture of fabrics impregnated, coated, covered or laminated with plastics
- manufacture of textile wadding and articles of wadding:
 - sanitary towels or tampons
- manufacture of metallized yarn or gimped yarn, rubber thread and cord covered with textile material, textile yarn or strip covered, impregnated, coated or sheathed with rubber or plastics
- manufacture of diverse fabrics: tyre cord fabric of high-tenacity man-made yarn, tracing cloth; canvas prepared for use by painters, buckram and similar stiffened textile fabrics, fabrics coated with gum or amylaceous substances
- manufacture of diverse textile articles: textile wicks, incandescent gas mantles and tubular gas mantle fabric, hosepiping, transmission or conveyor belts or belting, bolting cloth, straining cloth

This class excludes:

- *manufacture of needleloom felt floor coverings, see 17.51*
- *manufacture of cloth of woven metal wire, see 28.73*

17.6 Manufacture of knitted and crocheted fabrics

17.60 Manufacture of knitted and crocheted fabrics

This class includes:

- manufacture and processing in the same unit of knitted or crocheted fabrics:
 - pile and terry fabrics
 - net and window furnishing type fabrics knitted on Raschel or similar machines
 - other knitted or crocheted fabrics

This class excludes:

- *manufacture of net and window furnishing type fabrics of lace knitted on Raschel or similar machines, see 17.54*

17.7 Manufacture of knitted and crocheted articles

17.71 Manufacture of knitted and crocheted hosiery

This class includes:

- manufacture of hosiery, including socks, tights and panty hose

This class also includes:

- manufacture of footwear of textile material without applied soles

17.72 Manufacture of knitted and crocheted pullovers, cardigans and similar articles

This class includes:

- manufacture of knitted or crocheted pullovers, cardigans, jerseys, waistcoats and similar articles

18 Manufacture of wearing apparel; dressing and dyeing of fur

The clothing industry covers all tailoring (ready-to-wear or made-to-measure), in all materials (e.g. leather, fabric, knitted and crocheted fabrics, etc.), of all items of clothing (e.g. outerwear, underwear for men, women or children; work, city or casual clothing, etc.) and accessories. There is no distinction made between clothing for adults or children, or between modern and traditional clothing. Division 18 also includes the fur industry (furskins and wearing apparel). It does not include the manufacture of knitted and crocheted articles (17.7) and the finishing of wearing apparel (17.30).

18.1 Manufacture of leather clothes

18.10 Manufacture of leather clothes

This class includes:

- manufacture of wearing apparel made of leather or composition leather

This class excludes:

- *manufacture of leather gloves and belts, see 18.24*
- *manufacture of apparel of fur, see 18.30*

- *manufacture of leather sports gloves and sports headgear, see 36.40*

18.2 Manufacture of other wearing apparel and accessories

This group excludes:

- *manufacture of apparel of fur, see 18.30*

18.21 Manufacture of workwear

This class includes:

- manufacture of workwear

This class excludes:

- *manufacture of footwear, see 19.30*
- *manufacture of wearing apparel of rubber or plastics not assembled by stitching but merely sealed together, see 25.13, 25.24*
- *manufacture of safety headgear, see 25.24, 28.75*
- *repair of wearing apparel, see 52.74*

18.22 Manufacture of other outerwear

This class includes:

- manufacture of other outerwear made of woven, knitted or crocheted fabric, non-wovens, etc. for men, women and children:
 - coats, suits, ensembles, jackets, trousers, skirts, etc.

This class also includes:

- custom tailoring

This class excludes:

- *manufacture of wearing apparel of furskins, see 18.30*
- *manufacture of wearing apparel of rubber or plastics not assembled by stitching but merely sealed together, see 25.13, 25.24*
- *repair of wearing apparel, see 52.74*

18.23 Manufacture of underwear

This class includes:

- manufacture of underwear made of woven, knitted or crocheted fabric, lace, etc. for men, women and children:
 - shirts, T-shirts, underpants, briefs, pyjamas, nightdresses, dressing gowns, blouses, slips, brassieres, corsets, etc.

This class excludes:

- *repair of wearing apparel, see 52.74*

18.24 Manufacture of other wearing apparel and accessories n.e.c.

This class includes:

- manufacture of babies garments, tracksuits, skisuits, swimwear, etc.
- manufacture of hats and caps
- manufacture of other clothing accessories: gloves, belts, shawls, ties, cravats, hairnets, etc.

This class also includes:

- manufacture of headgear of furskins

This class excludes:

- *manufacture of safety headgear, see 25.24, 28.75*
- *manufacture of leather sports gloves and sports headgear, see 36.40*
- *repair of wearing apparel, see 52.74*

18.3 Dressing and dyeing of fur; manufacture of articles of fur

18.30 Dressing and dyeing of fur; manufacture of articles of fur

This class includes:

19.30 Manufacture of footwear

This class includes:

- manufacture of footwear for all purposes, of any material, by any process, including moulding
- manufacture of gaiters, leggings and similar articles
- manufacture of parts of footwear: manufacture of uppers and parts of uppers, outer and inner soles, heels, etc.

This class excludes:

- *manufacture of footwear of textile material without applied soles, see 17.71*
- *manufacture of footwear of asbestos, see 26.82*
- *manufacture of orthopaedic shoes, see 33.10*

Subsection DD Manufacture of wood and wood products

20 Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials

This division includes manufacture of wooden products, such as lumber, plywood, veneers, wooden containers, wooden flooring, wooden trusses and prefabricated wooden buildings. The production processes include sawing, planing, shaping, laminating and assembling of wooden products starting from logs that are cut into bolts, or lumber that then may be further cut, or shaped by lathes or other shaping tools. The lumber or other transformed wooden shapes may also be subsequently planed or smoothed, and assembled into finished products, such as wooden containers.

With the exception of sawmills and wood preservation units, the units are grouped into industries mainly based on the specific products manufactured.

It does not include either the manufacture of furniture (36.1), or the installation of not self-manufactured wooden fittings and the like (45.42).

20.1 Sawmilling and planing of wood; impregnation of wood

20.10 Sawmilling and planing of wood; impregnation of wood

This class includes:

- sawing, planing and machining of wood
- manufacture of wooden railway sleepers
- manufacture of unassembled wooden flooring
- manufacture of wood wool, wood flour, chips, particles

This class also includes:

- drying of wood
- impregnation or chemical treatment of wood with preservatives or other materials

This class excludes:

- *logging and production of wood in the rough, see 02.01*
- *manufacture of shingles and shakes, beadings and mouldings, see 20.30*

20.2 Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards

20.20 Manufacture of veneer sheets; manufacture of plywood, laminboard, particle board, fibre board and other panels and boards

20.3 Manufacture of builders' carpentry and joinery

20.30 Manufacture of builders' carpentry and joinery

This class includes:

- manufacture of wooden goods intended to be used primarily in the construction industry:
 - beams, rafters, roof struts
 - doors, windows, shutters and their frames
 - stairs, railings

- wooden beadings and mouldings, shingles and shakes
- parquet floor blocks, strips, etc., assembled into panels
- manufacture of prefabricated buildings, or elements thereof, of wood

This class excludes:

- *manufacture of unassembled wooden flooring, see 20.10*

20.4 Manufacture of wooden containers

20.40 Manufacture of wooden containers

This class includes:

- manufacture of packing cases, boxes, crates, drums and similar packings of wood
- manufacture of pallets, box pallets and other load boards of wood
- manufacture of barrels, vats, tubs and other coopers' products of wood
- manufacture of wooden cable-drums

This class excludes:

- *manufacture of luggage, see 19.20*
- *manufacture of cases of plaiting material, see 20.52*

20.5 Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials

20.51 Manufacture of other products of wood

This class includes:

- manufacture of various wooden products:
 - wooden handles and bodies for tools, brooms, brushes
 - wooden boot or shoe lasts and trees, clothes hangers
 - household utensils and kitchenware of wood; coat and hat racks
 - wooden statuettes and ornaments, wood marquetry, inlaid wood
 - wooden caskets and cases for jewellery, cutlery and similar articles
 - wooden coffins
 - wooden spools, cops, bobbins, sewing thread reels and similar articles of turned wood
 - other articles of wood

This class excludes:

- *manufacture of luggage, see 19.20*
- *manufacture of wooden footwear, see 19.30*
- *manufacture of lamps and lighting fittings, see 31.50*
- *manufacture of clock cases, see 33.50*
- *manufacture of furniture, see 36.1*
- *manufacture of wooden toys, see 36.50*
- *manufacture of imitation jewellery, see 36.61*
- *manufacture of brushes and brooms, see 36.62*
- *manufacture of walking sticks and umbrella handles, see 36.63*
- *manufacture of matches, see 36.63*

20.52 Manufacture of articles of cork, straw and plaiting materials

This class includes:

- natural cork processing
- manufacture of articles of natural or agglomerated cork
- manufacture of plaits and products of plaiting materials: mats, matting, screens, etc.
- manufacture of basketware and wickerwork

This class excludes:

- *manufacture of mats or matting of textile materials, see 17.51*
- *manufacture of furniture, see 36.1*

Subsection DE Manufacture of pulp, paper and paper products; publishing and printing

21 Manufacture of pulp, paper and paper products

This division covers manufacture of pulp, paper or converted paper products. The manufacturing of these products is grouped together because they constitute a series of vertically connected processes. More than one is often carried out in a single unit. There are essentially three activities. The manufacturing of pulp involves separating the cellulose fibres from other impurities in wood or used paper. The manufacturing of paper involves matting these fibres into a sheet. Converted paper products are made from paper and other materials by various cutting and shaping techniques and includes coating and laminating activities. The paper articles may be printed (e.g. wallpaper, gift wrap, etc.), as long as the printed information is not the main purpose

21.1 Manufacture of pulp, paper and paperboard

21.11 Manufacture of pulp

This class includes:

- manufacture of bleached, semi-bleached or unbleached paper pulp by mechanical, chemical (dissolving or non-dissolving) or semi-chemical processes
- removal of ink and manufacture of pulp from waste paper

21.12 Manufacture of paper and paperboard

This class includes:

- manufacture of paper and paperboard intended for further industrial processing

This class also includes:

- coating, covering and impregnation of paper and paperboard
- manufacture of creped or crinkled paper
- manufacture of newsprint and other printing or writing paper
- manufacture of cellulose wadding and webs of cellulose fibres

This class excludes:

- *manufacture of corrugated paperboard, see 21.21*
- *manufacture of further processed articles of paper, see 21.22, 21.23, 21.24, 21.25*

21.2 Manufacture of articles of paper and paperboard

21.21 Manufacture of corrugated paper and paperboard and of containers of paper and paperboard

This class includes:

- manufacture of corrugated paper and paperboard
- manufacture of containers of corrugated paper or paperboard
- manufacture of folding paperboard containers
- manufacture of containers of solid board
- manufacture of other containers of paper and paperboard
- manufacture of sacks and bags of paper
- manufacture of office box files and similar articles

This class excludes:

- *manufacture of envelopes, see 21.23*
- *manufacture of moulded or pressed articles of paper pulp (e.g. eggtrays), see 21.25*

21.22 Manufacture of household and sanitary goods and of toilet requisites

This class includes:

- manufacture of household and personal hygiene paper and cellulose wadding products:
 - cleansing tissues
 - handkerchiefs, towels, serviettes
 - toilet paper
 - sanitary towels and tampons, napkins and napkin liners for babies
 - cups, dishes and trays

21.23 Manufacture of paper stationery

This class includes:

- manufacture of printing and writing paper ready for use
- manufacture of computer printout paper
- manufacture of self-copy paper ready for use
- manufacture of duplicator stencils and carbon paper ready for use
- manufacture of gummed or adhesive paper ready for use
- manufacture of envelopes and letter-cards
- manufacture of boxes, pouches, wallets and writing compendiums containing an assortment of paper stationery

21.24 Manufacture of wallpaper

This class includes:

- manufacture of wallpaper and similar wallcoverings, including vinyl coated wallpaper
- manufacture of textile wall coverings

21.25 Manufacture of other articles of paper and paperboard n.e.c.

This class includes:

- manufacture of labels
- manufacture of filter paper and paperboard
- manufacture of paper and paperboard bobbins, spools, cops, etc.
- manufacture of eggtrays and other moulded pulp packaging products, etc.
- manufacture of paper or paperboard cards for use on Jacquard machines

This class excludes:

- *manufacture of paper or paperboard in bulk, see 21.12*
- *manufacture of playing cards, see 36.50*
- *manufacture of games and toys of paper or paperboard, see 36.50*

22 Publishing, printing and reproduction of recorded media

This division includes publishing of newspapers, magazines, other periodicals and books,

In general, the units, which are known as publishers, issue copies of works for which they usually possess copyright. Works may be in one or more formats including traditional print form, audio tape, CD-ROM or on-line. Publishers may publish works originally created by others for which they have obtained the rights and/or works that they have created in-house.

The printing activities print products, such as newspapers, books, periodicals, business forms, greeting cards, and other materials, and perform support activities, such as bookbinding, platemaking services, and data imaging. The support activities included here are an integral part of the printing industry, and a product (a printing plate, a bound book or a computer disk or file) that is an integral part of the printing industry is almost always provided by these operations.

Processes used in printing include a variety of methods used to transfer an image from a plate, screen, or computer file to some medium, such as paper, plastics, metal, textile articles, or wood. The most prominent of these methods is to transfer the image from a plate or screen to the medium (lithographic, gravure, screen, and flexographic printing). A rapidly growing new technology uses a computer file to directly "drive" the printing mechanism to create the image and new electrostatic

and other types of equipment (digital or non-impact printing).

Though printing and publishing are often carried out by the same unit (e.g. a newspaper), it is less and less the case that these distinct activities are carried out in the same unit.

This division excludes publishing of software, see 72.21.

On-line publishing, not in connection with other publishing, is in 72.40.

22.1 Publishing

22.11 Publishing of books

This class includes:

- publishing of books, brochures, leaflets and similar publications, including publishing of

- dictionaries and encyclopaedias
- publishing of maps and charts

22.12 Publishing of newspapers

This class includes:

- publishing of newspapers, including advertising newspapers

22.13 Publishing of journals and periodicals

22.14 Publishing of sound recordings

This class includes:

- publishing of gramophone records, CDs, DVDs and tapes with music or other sound recordings
- publishing of printed music

22.15 Other publishing

This class includes:

- publishing of:
 - photos, engravings and postcards
 - timetables
 - forms
 - posters, reproduction of works of art
 - other printed matter such as postcards reproduced by mechanical or photo-mechanical means

22.2 Printing and service activities related to printing

22.21 Printing of newspapers

22.22 Printing n.e.c.

This class includes:

- printing of magazines and other periodicals, books and brochures, music and music manuscripts, maps, atlases, posters, advertising catalogues, prospectuses and other printed advertising, postage stamps, taxation stamps, documents of title, cheques and other security papers, registers, albums, diaries, calendars, business forms and other commercial printed matter, personal stationery and other printed matter (e.g. plastic labels, plastic bags and glass sheets, articles of metal) by letterpress, offset, photogravure, flexographic, screen printing and other printing presses, duplication machines, computer printers, embossers, photocopiers and thermocopiers

This class excludes:

- *printing of labels, see 21.25*
- *publishing, see 22.1*

22.23 Bookbinding

This class includes:

- binding of printed sheets, e.g. into books, brochures, magazines, catalogues, etc., by folding, assembling, stitching, glueing, collating, basting, adhesive binding, trimming, gold stamping

22.24 Pre-press activities

This class includes:

- composition, typesetting, phototypesetting, data-input including scanning and optical character recognition, electronic makeup
- document creation, desktop publishing, and all other origination activities
- preparation of digital data, e.g. enhancement, selection, linkage of digital data
- computer aided design, computer aided manufacture, electronic processes for data-output
- digital imposition
- plate-making services including imagesetting and platesetting (for the printing processes)

letterpress and offset)

- engraving or etching of cylinders for gravure
- plate processes direct to plate (also photopolymer plates)
- plates and dies for relief stamping or printing
- artistic work including litho stones and prepared wood blocks

22.25 Ancillary activities related to printing

This class includes:

- production of reprographic products
- production of presentation media, e.g. overhead projection foils and other digital forms of presentation
- design of printing products e.g. sketches, layouts, dummies, etc.
- other graphic activities such as die, sinking or stamping, braille copying, punching and drilling, embossing, varnishing and laminating, collating and inseting, creasing

22.3 Reproduction of recorded media

22.31 Reproduction of sound recording

This class includes:

- reproduction from master copies of gramophone records, CDs, DVDs and tapes with music or other sound recordings

22.32 Reproduction of video recording

This class includes:

- reproduction from master copies of DVDs and video tapes with motion pictures and other video recordings

22.33 Reproduction of computer media

This class includes:

- reproduction from master copies of software and data on discs and tapes

Subsection DF Manufacture of coke, refined petroleum products and nuclear fuel

23 Manufacture of coke, refined petroleum products and nuclear fuel

This division is based on the transformation of crude petroleum and coal into usable products and also includes the nuclear industries. It is the manufacturing part of the energy sector which begins in section C (Mining and quarrying) and is also present in section E (Electricity, gas and water supply). The dominant process is petroleum refining that involves the separation of crude petroleum into component products through such techniques as cracking and distillation. This division also covers the manufacture for own account of characteristic products (e.g. coke, butane, propane, petrol, kerosene, fuel oil, nuclear fuel, etc.) as well as processing services (e.g. custom refining, treatment of nuclear waste).

This division includes only manufacture of gases with lower purity (less than 95% for ethane, ethylene and butane, less than 90% for propane (propylene), butene (butylene) and butadiene). Not included is manufacture of such gases with higher purity (24.14), manufacture of industrial gases (24.11), extraction of natural gas (methane, ethane, butane or propane) (11.10), and manufacture of fuel gas, other than petroleum gases (e.g. coal gas, water gas, producer gas, gasworks gas) (40.21).

23.1 Manufacture of coke oven products

23.10 Manufacture of coke oven products

This class includes:

- production of coke
- production of coke oven gas
- production of crude coal and lignite tars

This class excludes:

- *agglomeration of hard coal, see 10.10*
- *agglomeration of lignite, see 10.20*
- *production of pitch and pitch coke, see 24.14*
- *transformation of coke oven gas for distribution through mains, see 40.21*

23.2 Manufacture of refined petroleum products

23.20 Manufacture of refined petroleum products

This class includes:

- production of motor fuel: gasoline, kerosene, etc.
- production of fuel: light, medium and heavy fuel oil, refinery gases such as ethane propane, butane, etc.
- manufacture of oil based lubricating oils or greases, including from waste oil
- manufacture of products for the petrochemical industry and for the manufacture of road coverings
- manufacture of various products: white spirit, Vaseline, paraffin, etc.

23.3 Processing of nuclear fuel

23.30 Processing of nuclear fuel

This class includes:

- production of enriched uranium
- production of fuel elements for nuclear reactors
- production of radioactive elements for industrial or medical use
- reprocessing of nuclear fuels and treatment of radioactive nuclear waste

This class excludes:

- *mining and concentration of uranium and thorium ores, see 12.00*
- *manufacture of yellowcake, see 12.00*
- *treatment and disposal of transition radioactive waste from hospitals etc., see 90.02¹*

Subsection DG Manufacture of chemicals, chemical products and man-made fibres

This subsection is based on the transformation of organic and inorganic raw materials by a chemical process and the formulation of products. It distinguishes the production of basic chemicals that comprise the first industry group from the production of intermediate and end products produced by further processing of basic chemicals that make up the remaining activity groups.

24 Manufacture of chemicals and chemical products

24.1 Manufacture of basic chemicals

24.11 Manufacture of industrial gases

This class includes:

- manufacture of liquefied or compressed inorganic industrial or medical gases:
 - elemental gases
 - liquid or compressed air
 - refrigerant gases
 - mixed industrial gases
 - inert gases such as carbon dioxide
 - isolating gases

This class excludes:

- *extraction of methane, ethane, butane or propane, see 11.10*

¹ Type of radioactive waste (mainly from medical origin) which will decay within the period of temporary storage and may be suitable for management outside of the regulatory control system

- *manufacture of fuel gases such as ethane, butane or propane in a petroleum refinery, see 23.20*

24.12 Manufacture of dyes and pigments

This class includes:

- manufacture of dyes and pigments from any source in basic form or as concentrate

This class also includes:

- manufacture of products of a kind used as fluorescent brightening agents or as luminophores

This class excludes:

- *manufacture of prepared dyes and pigments, see 24.30*

24.13 Manufacture of other inorganic basic chemicals

This class includes:

- manufacture of chemical elements except metals, industrial elemental gases and radioactive elements produced by the nuclear fuels industry
- manufacture of inorganic acids except nitric acid
- manufacture of alkalis, lyes and other inorganic bases except ammonia
- manufacture of other inorganic compounds

This class excludes:

- *manufacture of nitric and sulphonitric acids, see 24.15*
- *manufacture of ammonia, see 24.15*
- *manufacture of ammonia chloride, see 24.15*
- *manufacture of nitrites and nitrates of potassium, see 24.15*
- *manufacture of ammonium carbonates, see 24.15*

24.14 Manufacture of other organic basic chemicals

This class includes:

- manufacture of other organic basic chemicals:
 - acyclic hydrocarbons, saturated and unsaturated
 - cyclic hydrocarbons, saturated and unsaturated
 - acyclic and cyclic alcohols, including synthetic ethyl alcohol
 - mono- and polycarboxylic acids, including acetic acid
 - other oxygen-function compounds, including aldehydes, ketones, quinones and dual or poly oxygen-function compounds
 - nitrogen-function organic compounds, including amines
 - other organic compounds, including wood distillation products, etc.
- manufacture of charcoal
- production of pitch and pitch coke
- manufacture of synthetic aromatic products
- distillation of coal tar

This class excludes:

- *manufacture of ethyl alcohol from fermented materials, see 15.92*
- *manufacture of plastics in primary forms, see 24.16*
- *manufacture of synthetic rubber in primary forms, see 24.17*
- *manufacture of salicylic and O-acetylsalicylic acids, see 24.41*
- *manufacture of crude glycerol, see 24.51*
- *manufacture of essential oils, see 24.63*

24.15 Manufacture of fertilizers and nitrogen compounds

This class includes:

- manufacture of fertilizers:
 - straight or complex nitrogenous, phosphatic or potassic fertilizers
 - urea, crude natural phosphates and crude natural potassium salts
- manufacture of associated nitrogen products:
 - nitric and sulphonitric acids, ammonia, ammonium chloride, nitrites and nitrates of potassium

This class excludes:

- *mining of guano, see 14.30*
- *manufacture of agro-chemical products, see 24.20*
- *waste treatment by composting plants with the aim of disposal and a resulting by-product (compost), see 90.02*

24.16 Manufacture of plastics in primary forms

This class includes:

- manufacture of plastics in primary forms:
 - polymers, including those of ethylene, propylene, styrene, vinyl chloride, vinyl acetate and acrylics
 - polyamides
 - phenolic and epoxide resins and polyurethanes
 - alkyd and polyester resins and polyethers
 - silicones
 - ion-exchangers based on polymers

This class also includes:

- manufacture of cellulose

This class excludes:

- *recycling of plastics, see 37.20*

24.17 Manufacture of synthetic rubber in primary forms

This class includes:

- manufacture of synthetic rubber in primary forms:
 - synthetic rubber
 - factice
- manufacture of mixtures of synthetic rubber and natural rubber or rubber-like gums (e.g. balata)

24.2 Manufacture of pesticides and other agro-chemical products

24.20 Manufacture of pesticides and other agro-chemical products

This class includes:

- manufacture of insecticides, rodenticides, fungicides, herbicides
- manufacture of anti-sprouting products, plant growth regulators
- manufacture of disinfectants
- manufacture of other agro-chemical products n.e.c.

This class excludes:

- *manufacture of fertilizers and nitrogen compounds, see 24.15*

24.3 Manufacture of paints, varnishes and similar coatings, printing ink and mastics

24.30 Manufacture of paints, varnishes and similar coatings, printing ink and mastics

This class includes:

- manufacture of paints and varnishes, enamels or lacquers
- manufacture of prepared pigments, opacifiers and colours; manufacture of vitrifiable enamels and glazes and engobes and similar preparations
- manufacture of mastics
- manufacture of caulking compounds and similar non-refractory filling or surfacing preparations
- manufacture of organic composite solvents and thinners, manufacture of prepared paint or varnish removers
- manufacture of printing ink

This class excludes:

- *manufacture of dyestuffs and pigments, see 24.12*
- *manufacture of writing and drawing ink, see 24.66*

24.4 Manufacture of pharmaceuticals, medicinal chemicals and botanical products

24.41 Manufacture of basic pharmaceutical products

This class includes:

- production of medicinally active substances to be used for their pharmacological properties in the manufacture of medicaments
- processing of blood

This class also includes:

- manufacture of chemically pure sugars
- processing of glands and manufacture of extracts of glands, etc.

24.42 Manufacture of pharmaceutical preparations

This class includes:

- manufacture of medicaments defined as such in Community law:
 - antisera and other blood fractions
 - vaccines
 - diverse medicaments, including homeopathic preparations
- manufacture of chemical contraceptive products for external use and hormonal contraceptive medicaments
- manufacture of dental fillings and bone reconstruction cements

This class also includes:

- manufacture of medical impregnated wadding, gauze, bandages, dressings, surgical gut string, etc.

24.5 Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations

24.51 Manufacture of soap and detergents, cleaning and polishing preparations

This class includes:

- manufacture of organic surface-active agents
- manufacture of soap
- manufacture of glycerol
- manufacture of surface-active preparations:
 - washing powders in solid or liquid form and detergents
 - dish-washing preparations
 - textile softeners
- manufacture of cleaning and polishing products:
 - preparations for perfuming or deodorizing rooms
 - artificial waxes and prepared waxes
 - polishes and creams for leather
 - polishes and creams for wood
 - polishes for coachwork, glass and metal
 - scouring pastes and powders

24.52 Manufacture of perfumes and toilet preparations

This class includes:

- manufacture of perfumes and toilet preparations:
 - perfumes and toilet water
 - beauty and make-up preparations
 - sunburn prevention and sun tan preparations
 - manicure and pedicure preparations
 - shampoos, hair lacquers, waving and straightening preparations
 - dentifrices and preparations for oral hygiene, including denture fixative preparations
 - shaving preparations
 - deodorants and bath salts
 - depilatories

This class excludes:

- *extraction and refining of essential oils, see 24.63*

24.6 Manufacture of other chemical products

24.61 Manufacture of explosives

This class includes:

- manufacture of propellant powders
- manufacture of explosives
- manufacture of pyrotechnic products

24.62 Manufacture of glues and gelatines

This class includes:

- manufacture of gelatine and its derivatives, glues and prepared adhesives, including rubber based glues and adhesives

24.63 Manufacture of essential oils

This class includes:

- manufacture of extracts of natural aromatic products
- manufacture of resinoids
- manufacture of aromatic distilled waters
- manufacture of mixtures of odoriferous products for the manufacture of perfumes or food

This class excludes:

- *manufacture of synthetic aromatic products, see 24.14*
- *manufacture of perfumes and toilet preparations, see 24.52*

24.64 Manufacture of photographic chemical material

This class includes:

- manufacture of photographic plates, films, sensitized paper and other sensitized unexposed materials
- manufacture of chemical preparations for photographic uses

24.65 Manufacture of prepared unrecorded media

This class includes:

- manufacture of unrecorded media for sound or video recording
- manufacture of unrecorded computer discs and tapes

This class excludes:

- *manufacture of unrecorded film media, see 24.64*

24.66 Manufacture of other chemical products n.e.c.

This class includes:

- manufacture of various chemical products:
 - peptones, peptone derivatives, other protein substances and their derivatives n.e.c.
 - chemically modified oils and fats
 - materials used in the finishing of textiles and leather
 - powders and pastes used in soldering, brazing or welding
 - substances used to pickle metal
 - prepared additives for cements
 - activated carbon, lubricating oil additives, prepared rubber accelerators, catalysts and other chemical products for industrial use
 - antiknock preparations, antifreeze preparations, liquids for hydraulic transmission
 - composite diagnostic or laboratory reagents

This class also includes:

- manufacture of writing and drawing ink

24.7 Manufacture of man-made fibres

24.70 Manufacture of man-made fibres

This class includes:

- manufacture of artificial or synthetic filament tow
- manufacture of synthetic or artificial staple fibres, not carded, combed, or otherwise processed for spinning
- manufacture of synthetic or artificial single yarn, including high tenacity yarn
- manufacture of synthetic or artificial monofilament or strip

This class excludes:

- *manufacture of sewing thread of man-made filaments, see 17.16*
- *spinning of synthetic or artificial fibres, see 17.1*

Subsection DH Manufacture of rubber and plastic products

The rubber and plastic industries are characterised by the raw materials used. However, this does not mean that all products made of these materials necessarily fall within this subsection.

25 Manufacture of rubber and plastic products

25.1 Manufacture of rubber products

25.11 Manufacture of rubber tyres and tubes

This class includes:

- manufacture of rubber tyres for vehicles, equipment, mobile machinery and other uses:
 - pneumatic tyres
 - solid or cushion tyres
- manufacture of inner tubes for tyres
- manufacture of interchangeable tyre treads, tyre flaps, 'camel-back' strips for retreading tyres, etc.

This class excludes:

- *manufacture of rubber repair materials, see 25.13*
- *tyre and tube repair, fitting or replacement, see 50.20*

25.12 Retreading and rebuilding of rubber tyres

This class includes:

- tyre rebuilding and retreading

This class excludes:

- *manufacture of rubber repair materials, see 25.13*
- *repair of punctured tyres, see 50.20*

25.13 Manufacture of other rubber products

This class includes:

- manufacture of other products of natural or synthetic rubber, unvulcanized, vulcanized or hardened:
 - rubber plates, sheets, strip, rods, profile shapes
 - tubes, pipes and hoses
 - rubber conveyor or transmission belts or belting
 - rubber hygienic articles: sheath contraceptives, teats, hot water bottles, etc.
 - rubber articles of apparel
 - rubber floor coverings
 - rubberized textiles
 - rubber thread and rope
 - rubberized yarn and fabrics
 - rubber rings, fittings and seals
 - rubber roller coverings
 - inflatable rubber mattresses

This class also includes:

- manufacture of rubber repair materials

This class excludes:

- *manufacture of tyre cord fabrics, see 17.54*
- *manufacture of apparel of elastic fabrics, see 18.2*
- *manufacture of rubber footwear, see 19.30*
- *manufacture of glues and adhesives based on rubber, see 24.62*
- *manufacture of 'camel-back' strips, see 25.11*
- *manufacture of inflatable rafts and boats, see 35.12*
- *manufacture of mattresses of uncovered cellular rubber, see 36.15*
- *manufacture of rubber sports requisites, see 36.40*
- *manufacture of rubber games and toys, see 36.50*
- *reclaiming of rubber, see 37.20*

25.2 Manufacture of plastic products

25.21 Manufacture of plastic plates, sheets, tubes and profiles

This class includes:

- manufacture of semi-manufactures of plastic products:
 - plastic plates, sheets, blocks, film, foil, strip, etc.
- manufacture of finished plastic products:
 - plastic tubes, pipes and hoses; hose and pipe fittings

This class excludes:

- *manufacture of plastics in primary forms, see 24.16*
- *manufacture of plastic optical elements, see 33.40*
- *manufacture of mattresses of uncovered cellular plastic, see 36.15*

25.22 Manufacture of plastic packing goods

This class includes:

- manufacture of plastic articles for the packing of goods:
 - plastic bags, sacks, containers, boxes, cases, carboys, bottles, etc.

This class excludes:

- *manufacture of plastic travel goods, see 19.20*
- *manufacture of articles of synthetic or natural rubber, see 25.1*
- *packaging, see 74.82*

25.23 Manufacture of builders' ware of plastics

This class includes:

- manufacture of builders' ware of plastics:
 - plastic doors, windows, frames, shutters, blinds, skirting boards
 - tanks, reservoirs
 - plastic floor, wall or ceiling coverings in rolls or in the form of tiles, etc.
 - plastic sanitary ware:
 - plastic baths, shower-baths, wash basins, lavatory pans, flushing cisterns, etc.

This class excludes:

- *manufacture of articles of synthetic or natural rubber, see 25.1*
- *manufacture of linoleum and hard non-plastic surface floor coverings, see 36.63*

25.24 Manufacture of other plastic products

This class includes:

- manufacture of plastic tableware, kitchenware and toilet articles
- manufacture of diverse plastic products:
 - plastic headgear, insulating fittings, parts of lighting fittings, office or school supplies, articles of apparel, fittings for furniture, statuettes, transmission and conveyer belts, etc.

This class excludes:

- *manufacture of plastic travel goods, see 19.20*
- *manufacture of plastic footwear, see 19.30*
- *manufacture of plastic medical and dental appliances, see 33.10*
- *manufacture of plastic optical elements, see 33.40*
- *manufacture of plastic furniture, see 36.1*

purposes; manufacture of refractory ceramic products

26.21 Manufacture of ceramic household and ornamental articles

This class includes:

- manufacture of ceramic tableware and other domestic or toilet articles
- manufacture of statuettes and other ornamental ceramic articles

This class excludes:

- *manufacture of ceramic toys, see 36.50*
- *manufacture of imitation jewellery, see 36.61*

26.22 Manufacture of ceramic sanitary fixtures

This class excludes:

- *manufacture of refractory ceramic goods, see 26.26*
- *manufacture of ceramic building materials, see 26.30, 26.40*

26.23 Manufacture of ceramic insulators and insulating fittings

This class includes:

- manufacture of electrical insulators and insulating fittings of ceramics

This class excludes:

- *manufacture of refractory ceramic goods, see 26.26*

26.24 Manufacture of other technical ceramic products

This class includes:

- manufacture of ceramic laboratory, chemical and industrial products

26.25 Manufacture of other ceramic products

This class includes:

- manufacture of ceramic pots, jars and similar of a kind used for conveyance or packing of goods
- manufacture of ceramic products n.e.c.

This class excludes:

- *manufacture of refractory ceramic goods, see 26.26*
- *manufacture of ceramic building materials, see 26.30, 26.40*

26.26 Manufacture of refractory ceramic products

This class includes:

- manufacture of refractory mortars, concretes, etc.
- manufacture of refractory ceramic goods:
 - heat-insulating ceramic goods of siliceous fossil meals
 - refractory bricks and blocks
 - refractory ceramic retorts, crucibles, muffles, nozzles, tubes, pipes, etc.

This class also includes:

- manufacture of articles containing magnesite, dolomite or cromite

26.3 Manufacture of ceramic tiles and flags

26.30 Manufacture of ceramic tiles and flags

This class includes:

- manufacture of non-refractory ceramic hearth or wall tiles, mosaic cubes, etc.
- manufacture of non-refractory ceramic flags and paving

This class excludes:

- *manufacture of refractory ceramic products, see 26.26*

26.4 Manufacture of bricks, tiles and construction products, in baked clay

26.40 Manufacture of bricks, tiles and construction products, in baked clay

This class includes:

- manufacture of non-refractory structural clay building materials:
 - manufacture of ceramic bricks, roofing tiles, chimney-pots, pipes, conduits, etc.

This class also includes:

- manufacture of flooring blocks in baked clay

This class excludes:

- *manufacture of structural refractory ceramic products, see 26.26*
- *manufacture of ceramic flags and pavings, see 26.30*

26.5 Manufacture of cement, lime and plaster

26.51 Manufacture of cement

This class includes:

- manufacture of clinkers and hydraulic cements, including portland, aluminous cement, slag cement and superphosphate cements

This class excludes:

- *manufacture of cements used in dentistry, see 24.42*
- *manufacture of refractory mortars, concretes, etc., see 26.26*
- *manufacture of articles of cement, see 26.6*
- *manufacture of ready-mixed concrete and mortars, see 26.63, 26.64*

26.52 Manufacture of lime

This class includes:

- manufacture of quicklime, slaked lime and hydraulic lime

This class also includes:

- production of calcined dolomite

26.53 Manufacture of plaster

This class excludes:

- *manufacture of articles of plaster, see 26.6*

26.6 Manufacture of articles of concrete, plaster and cement

26.61 Manufacture of concrete products for construction purposes

This class includes:

- manufacture of precast concrete, cement or artificial stone articles for use in construction:
 - tiles, flagstones, bricks, boards, sheets, panels, pipes, posts, etc.
- manufacture of prefabricated structural components for building or civil engineering of cement, concrete or artificial stone

26.62 Manufacture of plaster products for construction purposes

This class includes:

- manufacture of plaster articles for use in construction:
 - boards, sheets, panels, etc.

26.63 Manufacture of ready-mixed concrete

This class excludes:

- *manufacture of refractory cements, see 26.26*

26.64 Manufacture of mortars

This class includes:

- manufacture of powdered mortars

This class excludes:

- *manufacture of refractory mortars, see 26.26*

26.65 Manufacture of fibre cement

This class includes:

- manufacture of building materials of vegetable substances (wood wool, straw, reeds, rushes) agglomerated with cement, plaster or other mineral binder
- manufacture of articles of cellulose fibre-cement or the like:
 - corrugated sheets, other sheets, panels, tiles, tubes, pipes, reservoirs, troughs, basins, sinks, jars, furniture, window frames, etc.

26.66 Manufacture of other articles of concrete, plaster and cement

This class includes:

- manufacture of other articles of concrete, plaster, cement or artificial stone:
 - statuary, furniture, bas- and haut-reliefs, vases, flowerpots, etc.

26.7 Cutting, shaping and finishing of ornamental and building stone

26.70 Cutting, shaping and finishing of ornamental and building stone

This class includes:

- cutting, shaping and finishing of stone for use in construction, in cemeteries, on roads, as roofing, etc.

This class excludes:

- *activities carried out by operators of quarries, e.g. production of rough cut stone, see 14.11*
- *production of millstones, abrasive stones and similar products, see 26.81*

26.8 Manufacture of other non-metallic mineral products

26.81 Production of abrasive products

This class includes:

- manufacture of millstones, sharpening or polishing stones and natural or artificial abrasive products, including abrasive products on a soft base

26.82 Manufacture of other non-metallic mineral products n.e.c.

This class includes:

- manufacture of non-metallic mineral yarn and fabric, clothing, headgear, footwear, cord, string, paper, felt, etc.
- manufacture of friction material and unmounted articles thereof with a basis of mineral substances or of cellulose
- manufacture of mineral insulating materials:
 - slag wool, rockwool and similar mineral wools; exfoliated vermiculite, expanded clays and similar heat-insulating, sound-insulating or sound-absorbing materials
- manufacture of articles of diverse mineral substances:
 - worked mica and articles of mica, of peat, of graphite (other than electrical articles), etc.

This class excludes:

- *manufacture of glass wool and glass wool products, see 26.14*

Subsection DJ

Manufacture of basic metals and fabricated metal products

27 Manufacture of basic metals

This division includes the activities of smelting and/or refining ferrous and nonferrous metals from ore, pig or scrap, using electrometallurgical and other process metallurgical techniques. This subsection also covers the manufacture of metal alloys and superalloys by introducing other chemical elements to pure metals. The output of smelting and refining, usually in ingot form, is used in rolling, drawing, and extruding operations to make sheet, strip, bar, rod, or wire, and in molten form to make castings and other basic metal products.

27.1 Manufacture of basic iron and steel and of ferro-alloys

27.10 Manufacture of basic iron and steel and of ferro-alloys

This class includes:

- production of pig iron and spiegeleisen in pigs, blocks or other primary forms
- production of ferro-alloys
- production of semi-finished products of iron or non-alloy-steel
- production of ingots, other primary forms and semi-finished products of stainless steel or other alloy steel
- production of angles, shapes and sections of stainless steel or other alloy steel
- production of bars and rods of stainless steel or other alloy steel
- production of flat-rolled products of iron or non-alloy steel
- production of angles, shapes and sections of iron or non-alloy steel
- production of bars and rods of iron or non-alloy steel
- production of sheet piling
- production of railway track materials

27.2 Manufacture of tubes

27.21 Manufacture of cast iron tubes

This class includes:

- manufacture of cast iron tubes and cast iron or steel centrifugally cast tubes
- manufacture of cast iron fittings: non-malleable and malleable cast iron fittings and cast steel fittings for which connection is obtained by screwing for threaded fittings, by contact for socket fittings or by bolting for flange fittings

27.22 Manufacture of steel tubes

This class includes:

- manufacture of seamless tubes, by hot rolling, hot extrusion or hot drawing, or by cold drawing or cold rolling
- manufacture of welded tubes by cold or hot forming and welding, by forming and cold drawing, or by hot forming and reducing
- manufacture of steel tube fittings:
 - flat flanges and flanges with forged collars of steel
 - butt welding fittings of steel
 - threaded fittings and other fittings of steel

This class excludes:

- *manufacture of seamless tubes of centrifugally cast steel, see 27.21*

27.3 Other first processing of iron and steel

27.31 Cold drawing

This class includes:

- manufacture of steel bars or sections by cold drawing, grinding or peeling

This class excludes:

- *wire drawing or stretching, see 27.34*

27.32 Cold rolling of narrow strip

This class includes:

- manufacture of coated or uncoated flat rolled steel products in coils or in straight lengths of a width less than 600 mm by cold re-rolling of hot-rolled flat products

27.33 Cold forming or folding

This class includes:

- manufacture of open sections by progressive forming on a roll mill or folding on a press of flat-rolled products of steel

27.34 Wire drawing

This class includes:

- manufacture of steel wire by cold drawing or stretching

27.4 Manufacture of basic precious and non-ferrous metals

27.41 Precious metals production

This class includes:

- production of basic precious metals:
 - production and refining of unwrought precious metals: gold, silver, platinum, etc.
- production of precious metal alloys
- production of precious metal semi-products
- production of silver rolled onto base metals
- production of gold rolled onto base metals or silver
- production of platinum and platinum group metals rolled onto gold, silver or base metals

This class excludes:

- *manufacture of precious metal watch cases, see 33.50*
- *manufacture of precious metal jewellery, see 36.22*

27.42 Aluminium production

This class includes:

- production of aluminium from alumina
- production of aluminium from electrolytic refining of aluminium waste and scrap
- production of aluminium alloys
- semi-manufacturing of aluminium

This class also includes:

- production of aluminium oxide (alumina)
- production of aluminium wrapping foil

27.43 Lead, zinc and tin production

This class includes:

- production of lead, zinc and tin from ores
- production of lead, zinc and tin from electrolytic refining of lead, zinc and tin waste and scrap
- production of lead, zinc and tin alloys
- semi-manufacturing of lead, zinc and tin

27.44 Copper production

This class includes:

- production of copper from ores
- production of copper from electrolytic refining of copper waste and scrap
- production of copper alloys
- manufacture of fuse wire or strip
- semi-manufacturing of copper

27.45 Other non-ferrous metal production

This class includes:

- production of chrome, manganese, nickel, etc., from ores or oxides
- production of chrome, manganese, nickel, etc., from electrolytic and aluminothermic refining of chrome, manganese, nickel, etc., waste and scrap
- production of chrome, manganese, nickel, etc., alloys
- semi-manufacturing of chrome, manganese, nickel, etc.

This class also includes:

- production of mattes of nickel

27.5 Casting of metals

This group includes:

- manufacture of semi-finished products and various castings produced for third parties according to their specifications

This group excludes:

- *casting of finished metal products e.g. 27.21 cast iron pipes and pipe fittings etc., boilers and radiators, see 28.2 and 28.3, cast household items, see 28.75, etc.*

27.51 Casting of iron

This class includes:

- casting of semi-finished iron products
- casting of grey iron castings
- casting of spheroidal graphite iron castings
- casting of malleable cast iron products

This class excludes:

- *casting carried out in connection with the manufacture of metal products, see divisions 27 to 36*

27.52 Casting of steel

This class includes:

- casting of semi-finished steel products
- casting of steel castings

This class excludes:

- *casting carried out in connection with the manufacture of metal products, see divisions 27 to 36*

27.53 Casting of light metals

This class includes:

- casting of semi-finished products of aluminium, magnesium, titanium, beryllium, scandium and yttrium
- casting of light metal castings

This class excludes:

- *casting carried out in connection with the manufacture of metal products, see divisions 27 to 36*

27.54 Casting of other non-ferrous metals

This class includes:

- casting of heavy metal castings
- casting of precious metal castings

This class excludes:

- *casting carried out in connection with the manufacture of metal products, see divisions 27 to 36*

28 Manufacture of fabricated metal products, except machinery and equipment

While Division 28 deals with the manufacture of "pure" metal products (such as parts, containers and structures), usually with a static, immovable function, Divisions 29-36 concern combinations or assemblies of such metal products (sometimes with other materials) into more complex units which, unless they are purely electrical, electronic or optical, work with moving parts.

28.1 Manufacture of structural metal products

28.11 Manufacture of metal structures and parts of structures

This class includes:

- manufacture of ossature in metal for construction
- manufacture of industrial ossature in metal (ossature for blast furnaces, lifting and handling equipment, etc.)

- manufacture of prefabricated buildings mainly of metal:
 - site huts, modular exhibition elements, etc.

This class excludes:

- *manufacture of sections of ships, see 35.11*

28.12 Manufacture of builders' carpentry and joinery of metal

This class includes:

- manufacture of metal doors, windows and their frames, shutters and gates

28.2 Manufacture of tanks, reservoirs and containers of metal; manufacture of central heating radiators and boilers

28.21 Manufacture of tanks, reservoirs and containers of metal

This class includes:

- manufacture of reservoirs, tanks, and similar containers of metal, of a capacity exceeding 300 litres
- manufacture of metal containers for compressed or liquefied gas

This class excludes:

- *manufacture of metal casks, drums, cans, pails, boxes, etc. of a capacity not exceeding 300 litres, see 28.7*
- *manufacture of transport containers, see 34.20*

28.22 Manufacture of central heating radiators and boilers

28.3 Manufacture of steam generators, except central heating hot water boilers

28.30 Manufacture of steam generators, except central heating hot water boilers

This class includes:

- manufacture of steam or other vapour generators
- manufacture of auxiliary plant for use with steam generators:
 - condensers, economizers, super-heaters, steam collectors and accumulators
- manufacture of nuclear reactors

This class also includes:

- pipe system construction comprising further processing of tubes generally to make pressure pipes or pipe systems together with the associated design and construction work

This class excludes:

- *manufacture of isotope separators, see 29.56*

28.4 Forging, pressing, stamping and roll forming of metal; powder metallurgy

28.40 Forging, pressing, stamping and roll forming of metal; powder metallurgy

This class includes:

- forging, pressing, stamping and roll forming of metal
- powder metallurgy: production of metal objects directly from metal powders by heat treatment (sintering) or under pressure

This class excludes:

- *production of finely ground metal powder, see 27*

28.5 Treatment and coating of metals; general mechanical engineering

28.51 Treatment and coating of metals

This class includes:

- plating, anodizing, etc. of metal
- heat treatment of metal
- deburring, sand blasting, tumbling polishing, cleaning of metals

- colouring and engraving of metal
- non-metallic coating of metal:
 - plastifying, enamelling, lacquering, etc.
- hardening, buffing of metal

This class excludes:

- *while-you-wait services, see 52.74*
- *rolling precious metals onto base metals or other metals, see 27.41*

28.52 General mechanical engineering

This class includes:

- boring, turning, milling, eroding, planing, lapping, broaching, levelling, sawing, grinding, sharpening, welding, splicing, etc. of metal work pieces
- cutting and writing of/on metals by means of laser beams
- general mechanical maintenance and repair of machinery

28.6 Manufacture of cutlery, tools and general hardware

28.61 Manufacture of cutlery

This class includes:

- manufacture of domestic cutlery such as knives, forks, spoons, etc.
- manufacture of various cutting articles:
 - razors and razor blades
 - scissors and hair clippers

This class excludes:

- *manufacture of cutting blades for machines, see 28.62*
- *manufacture of hollowware, dinnerware or flatware, of base metal, see 28.75*
- *manufacture of cutlery, hollowware, dinnerware or flatware, of precious metal, see 36.22*

28.62 Manufacture of tools

This class includes:

- manufacture of knives and cutting blades for machines or for mechanical appliances
- manufacture of hand tools such as pliers, screwdrivers, etc.
- manufacture of saws and sawblades, including circular sawblades and chainsaw blades
- manufacture of interchangeable tools for hand tools, whether or not power operated, or for machine tools: drills, punches, dies, milling cutters
- manufacture of blacksmiths' tools: forges, anvils, etc.
- manufacture of vices, clamps

This class excludes:

- *manufacture of power-driven hand tools, see 29.41*

28.63 Manufacture of locks and hinges

This class includes:

- manufacture of padlocks, locks, keys, hinges and the like, hardware for buildings, furniture, vehicles, etc.

28.7 Manufacture of other fabricated metal products

28.71 Manufacture of steel drums and similar containers

This class includes:

- manufacture of iron or steel boxes of a capacity not exceeding 300 litres
- manufacture of pails, cans, drums, buckets

This class excludes:

- *manufacture of tanks and reservoirs, see 28.21*

28.72 Manufacture of light metal packaging

This class includes:

- manufacture of tins and cans for food products, collapsible tubes and boxes
- manufacture of metallic closures

28.73 Manufacture of wire products

This class includes:

- manufacture of metal cable, plaited bands and similar articles
- manufacture of articles made of wire: barbed wire, wire fencing, grill, netting, cloth, etc.
- manufacture of nails and pins

28.74 Manufacture of fasteners, screw machine products, chain and springs

This class includes:

- manufacture of rivets, washers and similar non-threaded products
- manufacture of screw machine products: bolts, screws, nuts
- manufacture of springs:
 - leaf springs, helical springs, torsion bar springs
 - leaves for springs
- manufacture of chain, except power transmission chain

This class excludes:

- *manufacture of power transmission chain, see 29.14*
- *manufacture of clock or watch springs, see 33.50*

28.75 Manufacture of other fabricated metal products n.e.c.

This class includes:

- manufacture of metal household articles:
 - saucepans, frying pans and other non-electrical utensils for use at the table or in the kitchen
 - base metal flatware
 - small kitchen appliances and accessories
 - metal scouring pads
- manufacture of baths, sinks, wash basins and similar articles of base metal
- manufacture of small metal goods for office use
- manufacture of safes, strong-boxes, armoured doors, etc.
- manufacture of cutlasses, swords, bayonets, etc.
- manufacture of ships' propellers
- manufacture of various articles in base metal:
 - metal safety headgear
 - clasps, buckles, hooks
 - sign plates

Subsection DK Manufacture of machinery and equipment n.e.c.

29 Manufacture of machinery and equipment n.e.c.

Division 29 covers the manufacture of machinery and equipment which independently act on materials either mechanically or thermally or perform operations on materials (such as handling, spraying, weighing or packing), including their mechanical components which produce and apply force, and any specially manufactured primary parts. This category includes fixed and mobile or hand-held devices, regardless of whether they are for industrial, building and civil engineering, agricultural, military or home use. The manufacture of weapons and special equipment for passenger or freight transport within demarcated premises also belongs to this division.

The manufacture of metal products for general use (Division 28), associated control devices, computer equipment, measurement and testing equipment, electricity distribution and control apparatus (Divisions 30-33) and general-purpose motor vehicles (Divisions 34 and 35) is excluded.

Division 29 distinguishes between the manufacture of general-purpose machinery and components and those with special applications. The headings begin with "Manufacture of ...":

- motors and engines (except electric motors), turbines, pumps, compressors, valves and transmissions
- ovens, burners, lifting and handling equipment, cooling and ventilation equipment, other general-purpose machinery (e.g. packaging equipment, weighing machines and water purification equipment)
- agricultural machinery, machine tools, machinery for other specific industrial purposes (e.g. for metal production, building and civil engineering, mining or the manufacture of foodstuffs, textiles, paper, printed matter, plastic and rubber products)
- weapons and munitions
- domestic appliances (electrical and non-electrical)

29.1 Manufacture of machinery for the production and use of mechanical power, except aircraft, vehicle and cycle engines

29.11 Manufacture of engines and turbines, except aircraft, vehicle and cycle engines

This class includes:

- manufacture of internal combustion piston engines and parts thereof, except aircraft, motor vehicle and cycle engines:
 - marine engines
 - railway engines
- manufacture of turbines and parts thereof:
 - steam turbines and other vapour turbines
 - hydraulic turbines, water-wheels and regulators thereof
 - gas turbines

This class excludes:

- *manufacture of wind turbines, see 29.12*
- *manufacture of electric generating sets, see 31.10*
- *manufacture of electrical equipment and components of internal combustion engines, see 31.61*
- *manufacture of motor vehicle, aircraft or cycle propulsion engines, see 34.10, 35.30, 35.41*
- *manufacture of turbojets and turbopropellers, see 35.30*

29.12 Manufacture of pumps and compressors

This class includes:

- manufacture of air or vacuum pumps, air or other gas compressors
- manufacture of pumps for liquids whether or not fitted with a measuring device

This class also includes:

- manufacture of fluid power equipment and pneumatic and wind power engines and motors

This class excludes:

- *manufacture of hydraulic transmission equipment, see 29.14*

29.13 Manufacture of taps and valves

This class includes:

- manufacture of industrial taps and valves, including regulating valves and intake taps
- manufacture of sanitary taps and valves
- manufacture of heating taps and valves

This class excludes:

- *manufacture of valves of unhardened vulcanized rubber, glass or of ceramic materials, see 25.13, 26.15 or 26.24*
- *manufacture of inlet and exhaust valves of internal combustion engines, see 34.30, 35.30*

29.14 Manufacture of bearings, gears, gearing and driving elements

This class includes:

- manufacture of ball and roller bearings and parts thereof
- manufacture of mechanical power transmission equipment:

- transmission shafts and cranks: camshafts, crankshafts, cranks, etc.
- bearing housings and plain shaft bearings
- manufacture of gears, gearing and gear boxes and other speed changers
- manufacture of clutches and shaft couplings
- manufacture of flywheels and pulleys
- manufacture of articulated link chain
- manufacture of hydraulic transmission equipment

This class excludes:

- *manufacture of other chain, see 28.74*
- *manufacture of electromagnetic clutches, see 31.62*

29.2 Manufacture of other general purpose machinery

29.21 Manufacture of furnaces and furnace burners

This class includes:

- manufacture of electrical and other industrial and laboratory furnaces and ovens, including incinerators
- manufacture of burners

This class also includes:

- manufacture of mechanical stokers, grates, ash dischargers, etc.

This class excludes:

- *manufacture of agricultural dryers, see 29.53*
- *manufacture of non-electric bakery ovens, see 29.53*
- *manufacture of dryers for wood, paper pulp, paper or paperboard, see 29.56*
- *manufacture of household ovens, see 29.71*
- *manufacture of medical, surgical or laboratory sterilizers, see 33.10*

29.22 Manufacture of lifting and handling equipment

This class includes:

- manufacture of hand-operated or power-driven lifting, handling, loading or unloading machinery:
 - pulley tackle and hoists, winches, capstans and jacks
 - derricks, cranes, mobile lifting frames, straddle carriers, etc.
 - works trucks, whether or not fitted with lifting or handling equipment, whether or not self-propelled, of the type used in factories
 - mechanical manipulators and industrial robots specifically designed for lifting, handling, loading or unloading
- manufacture of conveyors, teleferics, etc.
- manufacture of lifts, escalators and moving walkways

This class also includes:

- maintenance of lifts and escalators

This class excludes:

- *manufacture of continuous-action elevators and conveyors for underground use, see 29.52*
- *manufacture of mechanical shovels, excavators and shovel loaders, see 29.52*
- *manufacture of industrial robots for multiple uses, see 29.56*
- *manufacture of floating cranes, railway cranes, crane-lorries, see 34.10, 35.11, 35.20*
- *installation of lifts and elevators, see 45.31*

29.23 Manufacture of non-domestic cooling and ventilation equipment

This class includes:

- manufacture of refrigerating or freezing industrial equipment
- manufacture of air-conditioning machines
- manufacture of heat exchangers
- manufacture of non-domestic fans

This class excludes:

- *manufacture of agricultural dryers, see 29.53*
- *manufacture of domestic refrigerating or freezing equipment, see 29.71*

- *manufacture of domestic fans, see 29.71*

29.24 Manufacture of other general purpose machinery n.e.c.

This class includes:

- manufacture of weighing machinery (other than sensitive laboratory balances):
 - household and shop scales, platform scales, scales for continuous weighing, weighbridges, weights, etc.
- manufacture of filtering or purifying machinery and apparatus for liquids
- manufacture of equipment for projecting, dispersing or spraying liquids or powders:
 - spray guns, fire extinguishers, sand blasting machines, steam cleaning machines, etc.
- manufacture of packing and wrapping machinery:
 - filling, closing, sealing, capsuling or labelling machines, etc.
- manufacture of machinery for cleaning or drying bottles and for aerating beverages
- manufacture of distilling or rectifying plant for petroleum refineries, chemical industries, beverage industries, etc.
- manufacture of gas generators
- manufacture of calendaring or other rolling machines and cylinders thereof
- manufacture of centrifuges
- manufacture of gaskets and similar joints made of a combination of materials or layers of the same material
- manufacture of automatic goods vending machines

This class excludes:

- *manufacture of agricultural spraying machinery, see 29.32*
- *manufacture of metal or glass rolling machinery and cylinders thereof, see 29.51, 29.56*
- *manufacture of cream separators, see 29.53*
- *manufacture of domestic fans, see 29.71*
- *manufacture of laboratory-type sensitive balances, see 33.20*

29.3 Manufacture of agricultural and forestry machinery

29.31 Manufacture of agricultural tractors

This class includes:

- manufacture of tractors used in agriculture and forestry
- manufacture of walking (pedestrian controlled) tractors

This class excludes:

- *manufacture of road tractors for semi-trailers, see 34.10*
- *manufacture of road trailers or semi-trailers, see 34.20*

29.32 Manufacture of other agricultural and forestry machinery

This class includes:

- manufacture of mowers, including lawnmowers
- manufacture of agricultural self-loading or self-unloading trailers or semi-trailers
- manufacture of agricultural machinery for soil preparation, planting or fertilizing:
 - ploughs, manure spreaders, seeders, harrows, etc.
- manufacture of harvesting or threshing machinery:
 - harvesters, threshers, sorters, etc.
- manufacture of milking machines
- manufacture of spraying machinery for agricultural use
- manufacture of diverse agricultural machinery:
 - poultry-keeping machinery, bee-keeping machinery, equipment for preparing fodder, etc.
 - machines for cleaning, sorting or grading eggs, fruit, seed, grain, etc.

This class excludes:

- *manufacture of agricultural hand tools, see 28.62*
- *manufacture of works trucks, see 29.22*
- *manufacture of cream separators, see 29.53*
- *manufacture of road trailers or semi-trailers, see 34.20*

29.4 Manufacture of machine tools

29.41 Manufacture of portable hand held power tools

This class includes:

- manufacture of pneumatic or motorized hand tools
- manufacture of parts of chain saws; parts of pneumatic tools; parts of hand tools, with a non-electric motor
- manufacture of parts of tools for working in the hand, with electric motor

29.42 Manufacture of other metalworking machine tools

This class includes:

- manufacture of machine tools for working metals operated by laser and the like; machining centres and the like
- manufacture of lathes, boring and milling machines for working metals
- manufacture of other machine tools for working metals
- manufacture of parts and accessories for metal working machine tools

29.43 Manufacture of other machine tools n.e.c.

This class includes:

- manufacture of machine tools for working stone, wood and similar hard material; presses for the manufacture of particle board and the like
- manufacture of soldering, brazing and welding tools, surface tempering and hot spraying machines and apparatus
- manufacture of tool holders and self-opening dieheads
- manufacture of work holders for machine tools
- manufacture of dividing heads and other special attachments for machine tools
- manufacture of parts and accessories for wood, cork, hard rubber and similar hard materials working machine tools
- manufacture of parts and accessories for welding equipment

29.5 Manufacture of other special purpose machinery

29.51 Manufacture of machinery for metallurgy

This class includes:

- manufacture of machines and equipment for handling hot metals:
 - converters, ingot moulds, ladles, casting machines
- manufacture of metal-rolling mills and rolls for such mills

This class excludes:

- *manufacture of moulding boxes and moulds (except ingot moulds), see 29.56*

29.52 Manufacture of machinery for mining, quarrying and construction

This class includes:

- manufacture of continuous-action elevators and conveyors for underground use
- manufacture of boring, cutting, sinking and tunnelling machinery
- manufacture of machinery for treating minerals by screening, sorting, separating, etc.
- manufacture of concrete and mortar mixers
- manufacture of earth-moving machinery:
 - bulldozers, angle-dozers, graders, scrapers, levellers, mechanical shovels, shovel loaders, etc.
- manufacture of pile-drivers and pile-extractors, mortar spreaders, bitumen spreaders, concrete surfacing machinery, etc.
- manufacture of bulldozer and angle-dozer blades

This class excludes:

- *manufacture of lifting and handling equipment, see 29.22*
- *manufacture of wheeled tractors, see 29.31, 34.10*
- *manufacture of machine tools for working stone, including machines for splitting or clearing stone, see 29.4*
- *manufacture of concrete-mixer lorries, see 34.10*

29.53 Manufacture of machinery for food, beverage and tobacco processing

This class includes:

- manufacture of agricultural dryers
- manufacture of machinery for the dairy industry:
 - cream separators
 - milk processing machinery (homogenizers and irradiators)
 - milk converting machinery (butter chums, butter workers and moulding machines)
 - cheese-making machines (homogenizers, moulders, presses) etc.
- manufacture of machinery for grain milling industry:
 - grinding mills, 'breeding' rolls or mills, feeders, sifters, bran cleaners, blenders, rice hullers, pea splitters
- manufacture of presses, crushers, etc. used to make wine, cider, fruit juices, etc.
- manufacture of machinery for the bakery industry or for making macaroni, spaghetti or similar products:
 - non-electric bakery ovens, dough mixers, dough-dividers, moulders, slicers, cake depositing machines, etc.
- manufacture of machines and equipment to process diverse food:
 - machinery to make confectionery, cocoa or chocolate; to manufacture sugar; for breweries; to process meat or poultry, to prepare fruit, nuts or vegetables; to prepare fish, shellfish or other seafood; other machinery for the industrial preparation or manufacture of food or drink
- manufacture of machinery for the extraction or preparation of animal or vegetable fats or oils
- manufacture of machinery for the preparation of tobacco and for the making of cigarettes or cigars, or for pipe or chewing tobacco or snuff
- manufacture of machinery for the preparation of food in hotels and restaurants

This class excludes:

- *manufacture of packing, wrapping and weighing machinery, see 29.24*
- *manufacture of cleaning, sorting or grading machinery for eggs, fruit or other crops, see 29.32*

29.54 Manufacture of machinery for textile, apparel and leather production

This class includes:

- manufacture of textile machinery:
 - machines for preparing, producing, extruding, drawing, texturing or cutting man-made textile fibres, materials or yarns
 - machines for preparing textile fibres: cotton gins, bale breakers, garnetters, cotton spreaders, wool scouters, wool carbonizers, combs, carders, roving frames, etc.
 - spinning machines
 - machines for preparing textile yarns: reelers, warpers and related machines
 - weaving machines (looms), including hand looms
 - knitting machines
 - machines for making knotted net, tulle, lace, braid, etc.
- manufacture of auxiliary machines or equipment for textile machinery:
 - dobbies, Jacquards, automatic stop motions, shuttle changing mechanisms, spindles and spindle flyers, etc.
- manufacture of machinery for fabric processing:
 - machinery for washing, bleaching, dyeing, dressing, finishing, coating or impregnating textile fabrics
 - manufacture of machines for reeling, unreeling, folding, cutting or pinking textile fabrics
- manufacture of laundry machinery:
 - ironing machines, including fusing presses
 - laundry-type washing and drying machines
 - dry-cleaning machines
- manufacture of sewing machines, sewing machine heads and sewing machine needles
- manufacture of machines for producing or finishing felt or non-wovens
- manufacture of leather machines:
 - machinery for preparing, tanning or working hides, skins or leather
 - machinery for making or repairing footwear or other articles of hides, skins, leather or furskins

This class excludes:

- *manufacture of paper or paperboard cards for use on Jacquard machines, see 21.25*
- *manufacture of ironing machines of the calender type, see 29.24*
- *manufacture of machines used in bookbinding, see 29.56*

- *manufacture of domestic washing and drying machines, see 29.71*

29.55 Manufacture of machinery for paper and paperboard production

This class includes:

- manufacture of machinery for making paper pulp
- manufacture of paper and paperboard making machinery
- manufacture of machinery producing articles of paper or paperboard

This class excludes:

- *manufacture of machines for drying paper, see 29.56.*

29.56 Manufacture of other special purpose machinery n.e.c.

This class includes:

- manufacture of machinery for working soft rubber or plastics or for the manufacture of products of these materials:
 - extruders, moulders, pneumatic tyre making or retreading machines and other machines for making a specific rubber or plastic product
- manufacture of printing and bookbinding machines
- manufacture of moulding boxes for any material; mould bases; moulding patterns; moulds
- manufacture of dryers for wood, paper pulp, paper or paperboard
- manufacture of centrifugal clothes-dryers
- manufacture of diverse special machinery and equipment:
 - machines to assemble electric or electronic lamps, tubes (valves) or bulbs
 - machines for production or hot-working of glass or glassware, glass fibre or yarn
 - machinery or apparatus for isotopic separation
 - rope-making machinery, etc.

This class excludes:

- *manufacture of machinery or equipment to work hard rubber, hard plastics or cold glass, see 29.43*
- *manufacture of domestic appliances, see 29.7*

29.6 Manufacture of weapons and ammunition

29.60 Manufacture of weapons and ammunition

This class includes:

- manufacture of tanks and other fighting vehicles
- manufacture of artillery material and ballistic missiles
- manufacture of small arms
- manufacture of war ammunition

This class also includes:

- manufacture of hunting, sporting or protective firearms and ammunition
- manufacture of explosive devices such as bombs, mines and torpedoes

This class excludes:

- *manufacture of percussion caps, detonators or signalling flares, see 24.61*
- *manufacture of cutlasses, swords, bayonets, etc., see 28.75*
- *manufacture of armoured vehicles for the transport of banknotes or valuables, see 34.10*

29.7 Manufacture of domestic appliances n.e.c.

29.71 Manufacture of electric domestic appliances

This class includes:

- manufacture of domestic electric appliances:
 - refrigerators and freezers, dishwashers, washing and drying machines, vacuum cleaners, floor polishers, waste disposers, grinders, blenders, juice squeezers, tin openers, electric shavers, electric tooth brushes, knife sharpeners, ventilating or recycling hoods
- manufacture of domestic electrothermic appliances:
 - electric water heaters; electric blankets, electric dryers, combs, brushes, curlers; electric smoothing irons; space heaters and household-type fans; electric ovens, microwave ovens,

cookers, hot plates, toasters, coffee or tea makers, fry-pans, roasters, grills, electric heating resistors, etc.

This class excludes:

- *manufacture of sewing machines, see 29.54*
- *manufacture of centrifugal clothes-dryers, see 29.56*

29.72 Manufacture of non-electric domestic appliances

This class includes:

- manufacture of non-electric domestic cooking and heating equipment:
 - non-electric space heaters, cooking ranges, grates, stoves, water heaters, cooking appliances, plate warmers

This class excludes:

- *manufacture of machinery for the preparation of food in commercial kitchens, see 29.53*

Subsection DL Manufacture of electrical and optical equipment

30 Manufacture of office machinery and computers

The manufacture of office machinery (e.g. photocopiers, cash registers, etc.) and computer equipment (e.g. computers, word processors and peripherals), is considered to include installation, but not maintenance (72.5), software design (72.2) or the manufacture of electronic components (32.1).

These machines are often leased (71.3: Renting of other machinery and equipment), but if they are leased by the manufacturer, this is simply a form of sale of production.

30.0 Manufacture of office machinery and computers

30.01 Manufacture of office machinery

This class includes:

- manufacture of manual or electric typewriters
- manufacture of word-processing machines
- manufacture of hectograph or stencil duplicating machines, addressing machines and sheet-fed office-type offset printing machines
- manufacture of calculating machines, cash registers, postage franking machines, special terminals for issuing of tickets and reservations, etc.
- manufacture of diverse office machinery or equipment:
 - machines that sort, wrap or count coins; automatic banknote dispensers; machines that stuff envelopes, sort mail; pencil sharpening machines; perforating or stapling machines, etc.

30.02 Manufacture of computers and other information processing equipment

This class includes:

- manufacture of automatic data processing machines, including microcomputers:
 - digital machines
 - analog machines
 - hybrid machines
- manufacture of peripheral units:
 - printers, terminals, etc.
 - magnetic or optical readers
 - machines for transcribing data onto data media in coded form

This class excludes:

- *manufacture of electronic parts found in computing machinery, see 32.10*
- *manufacture of electronic games, see 36.50*
- *repair and maintenance of computer systems, see 72.50*

31 Manufacture of electrical machinery and apparatus n.e.c.

31.1 Manufacture of electric motors, generators and transformers

31.10 Manufacture of electric motors, generators and transformers

This class includes:

- manufacture of AC motors
- manufacture of AC generators
- manufacture of universal AC/DC motors
- manufacture of DC motors or generators
- manufacture of AC or DC generator sets
- manufacture of electric rotary or static converters
- manufacture of electrical transformers

This class excludes:

- *manufacture of vehicle generators and cranking motors, see 31.61*
- *manufacture of diode valves, see 32.10*

31.2 Manufacture of electricity distribution and control apparatus

31.20 Manufacture of electricity distribution and control apparatus

This class includes:

- manufacture of electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits:
 - switches, fuses, lightning arresters, voltage limiters, surge suppressors, plugs, junction boxes, relays, sockets, lamp holders
- manufacture of electric control or distribution boards, panels, consoles, desks, cabinets and other bases

This class excludes:

- *manufacture of fuse wire or strip, see 27.4*
- *manufacture of carbon or graphite electrodes, see 31.62*
- *manufacture of boards, panels, consoles, etc. for use in line telephony or line telegraphy, see 32.20*

31.3 Manufacture of insulated wire and cable

31.30 Manufacture of insulated wire and cable

This class includes:

- manufacture of insulated wire, cable, strip and other insulated conductors, whether or not fitted with connectors
- manufacture of optical fibre cables for coded data transmission: telecommunications, video, control, data, etc.

This class excludes:

- *manufacture of uninsulated non-ferrous metal wire, see 27.4*
- *manufacture of uninsulated metal cable or insulated cable not capable of being used as a conductor of electricity, see 28.73*
- *manufacture of wiring sets, see 31.61*

31.4 Manufacture of accumulators, primary cells and primary batteries

31.40 Manufacture of accumulators, primary cells and primary batteries

This class includes:

- manufacture of primary cells and primary batteries
- manufacture of electric accumulators, including parts thereof

31.5 Manufacture of lighting equipment and electric lamps

31.50 Manufacture of lighting equipment and electric lamps

This class includes:

- manufacture of electric filament or discharge lamps:
 - ultraviolet or infrared lamps
 - arc lamps
 - flashbulbs, flashcubes, etc.
- manufacture of electric lamps and lighting fittings:
 - chandeliers, table, desk, bedside or floor-standing lamps, even non-electric
 - portable electric lamps
 - illuminated signs and nameplates, etc.
 - outdoor and road lighting
 - lighting sets of a kind used for Christmas trees

31.6 Manufacture of electrical equipment n.e.c.

31.61 Manufacture of electrical equipment for engines and vehicles n.e.c.

This class includes:

- manufacture of electrical ignition or starting equipment for internal combustion engines: ignition magnetos, magneto-dynamos, ignition coils, sparking plugs, glow plugs, starter motors, generators (dynamos, alternators), voltage regulators, etc.
- manufacture of electrical lighting and sound or visual signalling equipment for cycles and motor vehicles: lamps, horns, sirens, etc.
- manufacture of wiring sets
- manufacture of windscreen wipers and electrical defrosters and demisters for motor vehicles and motorcycles
- manufacture of dynamos for cycles

31.62 Manufacture of other electrical equipment n.e.c.

This class includes:

- manufacture of electrical signalling, safety or traffic control equipment for motorways, roads or streets, railways and tramways, inland waterways, ports and harbours and airports
- manufacture of diverse electrical sound or visual signalling apparatus:
 - bells, sirens, indicator panels, burglar and fire alarms, etc.
- manufacture of electromagnets, including electromagnetic or permanent magnet chucks, clutches, brakes, couplings, clamps or lifting heads
- manufacture of electrical insulators and insulating fittings, except of glass or ceramics
- manufacture of insulating fittings for electrical machines or equipment, except of ceramics or plastics
- manufacture of carbon or graphite electrodes
- manufacture of electrical conduit tubing and joints for such tubing, of base metal lined with insulating material
- manufacture of diverse electrical machines and apparatus:
 - particle accelerators, signal generators, mine detectors, etc.

This class excludes:

- *manufacture of glass envelopes for lamps, see 26.15*
- *manufacture of hand-held electrically-operated spray guns, see 29.24*
- *manufacture of electric lawnmowers, see 29.32*
- *manufacture of electric shavers, see 29.71*
- *manufacture of electronic valves and tubes (including cold cathode valves), see 32.10*
- *manufacture of electrically-operated hand-held medical or dental instruments, see 33.10*

32 Manufacture of radio, television and communication equipment and apparatus

This division covers the manufacture of equipment for broadcasting and transmission, receivers, recorders and reproduction equipment. The division covers all intermediate products from professional equipment to that for the general public. It should be pointed out that the installation and repair of professional equipment are also covered by this division. On the other hand, the repair of household equipment falls under 52.7 (Repair of personal and household goods) and the installation of wiring, aerials or alarms falls under construction (45.3: Building installation).

32.1 Manufacture of electronic valves and tubes and other electronic components

32.10 Manufacture of electronic valves and tubes and other electronic components

This class includes:

- manufacture of thermionic, cold cathode or photocathode valves or tubes:
 - television picture tubes, television camera tubes, image converters and intensifiers, microwave tubes, receiver or amplifier valves or tubes, etc.
- manufacture of diodes, transistors and similar semiconductor devices
- manufacture of photosensitive semiconductor devices, including photovoltaic cells such as single solar cells
- manufacture of mounted piezoelectric crystals
- manufacture of electronic integrated circuits and microassemblies:
 - monolithic integrated circuits, hybrid integrated circuits and electronic microassemblies of moulded module, micromodule or similar types
- manufacture of printed circuits
- manufacture of electrical capacitors (or condensers), including power capacitors
- manufacture of resistors, including rheostats and potentiometers

This class excludes:

- *manufacture of heating resistors, see 29.71*
- *manufacture of transformers, see 31.10*
- *manufacture of switches, see 31.20*

32.2 Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy

32.20 Manufacture of television and radio transmitters and apparatus for line telephony and line telegraphy

This class includes:

- manufacture of apparatus for television transmission, including manufacture of relay transmitters and television transmitters for industrial use
- manufacture of television cameras
- manufacture of transmission apparatus for radio-broadcasting
- manufacture of transmission apparatus for radio-telephony:
 - fixed transmitters and transmitter-receivers, radio-telephony apparatus for transport equipment, radio-telephones, other transponders, etc.
- manufacture of apparatus for line telephony:
 - telephone sets, fax machines, automatic and non-automatic switchboards and exchanges, telex and teleprinter apparatus, etc.
- manufacture of data communication equipment such as routers, bridges and gateways

This class also includes:

- installation of telecommunication systems

This class excludes:

- *manufacture of electronic components, see 32.10*
- *installation of electrical wiring in buildings, see 45.31*
- *repair of mobile telephones, see 52.74*

32.3 Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods

32.30 Manufacture of television and radio receivers, sound or video recording or reproducing apparatus and associated goods

This class includes:

- manufacture of television receivers, including video monitors and video projectors
- manufacture of video recording or reproducing apparatus, including camcorders, DVD recorders and players
- manufacture of digital photographic cameras
- manufacture of radio-broadcasting receivers
- manufacture of magnetic tape recorders and other sound recording apparatus, including telephone answering machines, cassette-type recorders, etc.
- manufacture of turntables (record decks), record players, cassette players, CD players, etc.

- manufacture of microphones, loudspeakers, headphones, earphones, amplifiers and sound amplifier sets
- manufacture of pick-ups, tone arms, sound-heads, tables for turntables, aerials, aerial reflectors and aerial rotors, cable converters, TV decoders

This class also includes:

- manufacture of sound electroacoustic apparatus, command transmitter intercoms, simultaneous interpretation apparatus, electronic voting systems, conference systems, portable sound systems

This class excludes:

- *publishing and reproduction of pre-recorded audio and video tapes, CDs and DVDs, see 22.1, 22.3, 92.11*
- *manufacture of prepared unrecorded media, see 24.65*

33 Manufacture of medical, precision and optical instruments, watches and clocks

Division 33 covers not only scientific and technical instruments (e.g. electro-diagnostic apparatus, avionic equipment, etc.) but also photographic and cinematographic equipment, industrial process control equipment, and personal goods (e.g. watches, spectacles, etc.).

Division 33 also includes the installation and repair of such industrial equipment, although the repair of personal goods falls under group 52.7 (Repair of personal and household goods).

33.1 Manufacture of medical and surgical equipment and orthopaedic appliances

33.10 Manufacture of medical and surgical equipment and orthopaedic appliances

This class includes:

- manufacture of instruments and appliances used for medical, surgical, dental or veterinary purposes:
 - electro-diagnostic apparatus such as electrocardiographs, ultrasonic diagnostic equipment, scintillation scanners, nuclear magnetic resonance apparatus, dental drill engines, sterilizers, ophthalmic instruments
- manufacture of syringes, needles used in medicine, mirrors, reflectors, endoscopes, etc.
- manufacture of apparatus based on the use of X-rays or alpha, beta or gamma radiation, whether or not for use in human or animal medicine:
 - X-ray tubes, high-tension generators, control panels, desks, screens, etc.
- manufacture of medical, surgical, dental or veterinary furniture:
 - operating tables, hospital beds with mechanical fittings, dentists' chairs
- manufacture of mechano-therapy appliances, massage apparatus, psychological testing apparatus, ozone therapy, oxygen therapy, artificial respiration apparatus, gas masks, etc.

This class also includes:

- manufacture of orthopaedic appliances:
 - crutches, surgical belts and trusses, splints, artificial teeth, artificial limbs and other artificial parts of the body, hearing aids, pacemakers, orthopaedic shoes, etc.

This class excludes:

- *manufacture of cement used in dentistry, see 24.42*
- *manufacture of thermometers, see 33.20*
- *manufacture of corrective spectacle lenses and of their frames or of optical microscopes, see 33.40*

33.2 Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment

33.20 Manufacture of instruments and appliances for measuring, checking, testing, navigating and other purposes, except industrial process control equipment

This class includes:

- manufacture of laboratory-type sensitive balances
- manufacture of drawing, marking-out or mathematical calculating instruments:
 - measuring rods and tapes, micrometers, callipers and gauges, etc.
- manufacture of microscopes other than optical microscopes and diffraction apparatus
- manufacture of apparatus for measuring and checking electrical quantities:

- oscilloscopes, spectrum analysers, crosstalk meters, instruments for checking current, voltage, resistance, etc.
- manufacture of apparatus for measuring or checking non-electrical quantities:
 - radiation detectors and counters, apparatus for testing and regulating vehicle motors, etc.
- manufacture of navigational, meteorological, geophysical and related instruments and apparatus:
 - surveying instruments, oceanographic or hydrological instruments, seismometers, range-finders, automatic pilots, sextants, ultrasonic sounding instruments,
- manufacture of electricity supply meters and supply meters for water, gas, petrol, etc.
- manufacture of machines and appliances for testing the mechanical properties of materials
- manufacture of instruments and apparatus for carrying out physical or chemical analyses:
 - polarimeters, photometers, refractometers, colorimeters, spectrometers, pH-meters, viscometers, surface tension instruments, etc.
- manufacture of instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases:
 - flow meters, level gauges, manometers, heat meters, etc.
- manufacture of diverse measuring, checking or testing instruments, apparatus or machines:
 - hydrometers, thermometers, barometers, revolution counters, taximeters, pedometers, tachometers, balancing machines, test benches, comparators, etc.

This class also includes:

- manufacture of optical type measuring and checking appliances and instruments
 - air navigation instruments and systems, radar apparatus, radio remote control apparatus and radio navigational aid apparatus

This class excludes:

- *manufacture of pumps incorporating measuring devices, see 29.12*
- *manufacture of medical and surgical instruments, see 33.10*
- *manufacture of industrial process control equipment, see 33.30*
- *manufacture of binoculars, monoculars and similar optical devices, see 33.40*
- *manufacture of optical microscopes, see 33.40*

33.3 Manufacture of industrial process control equipment

33.30 Manufacture of industrial process control equipment

This class includes:

- design and assembly of industrial continuous process control systems (also for automated production plants consisting of various machines, handling devices and centralized controlling apparatus)

33.4 Manufacture of optical instruments and photographic equipment

33.40 Manufacture of optical instruments and photographic equipment

This class includes:

- manufacture of optical elements mounted or not:
 - unworked optical elements other than of glass
 - prisms, lenses, optical mirrors, colour filters, polarizing elements, etc. of glass or other material
 - spectacle lenses and contact lenses
 - spectacle frames and frames fitted with lenses, whether or not the lenses are optically worked: sun-glasses, protective glasses, corrective glasses, etc.
- manufacture of optical instruments:
 - optical microscopes, equipment for microphotography and microprojection, magnifying glasses, reading glasses, thread counters, etc.
 - binoculars, sight telescopes, telescopic sights and observation telescopes, astronomical equipment, etc.
 - lasers, excluding laser diodes, etc.
- manufacture of photographic and cinematographic equipment:
 - cameras
 - image projectors, enlargers and reducers
 - discharge lamps ('electronic') and other flashlight apparatus

- apparatus and equipment for photographic and cinematographic laboratories, apparatus for the projection of circuit patterns on sensitized semiconductor materials, projection screens

This class excludes:

- *manufacture of photochemical products, see 24.64*
- *manufacture of unworked glass optical elements, see 26.15*
- *manufacture of optical fibre cables for coded data transmission, see 31.30*
- *manufacture of photographic flashbulbs, see 31.50*
- *manufacture of television cameras, see 32.20*
- *manufacture of microscopes other than optical, see 33.20*
- *manufacture of optical-type measuring and checking appliances and instruments, see 33.20*

33.5 Manufacture of watches and clocks

33.50 Manufacture of watches and clocks

This class includes:

- manufacture of clocks and watches of all kinds, including instrument panel clocks; watch and clock cases, including cases of noble metals; movements of all kinds for watches and clocks
- manufacture of time-recording equipment and equipment for measuring, recording and otherwise displaying intervals of time, e.g. parking meters, process timers, time switches and other releases
- manufacture of components for clocks and watches, such as springs, jewels, dials, hands, metal watch bands and bracelets, plates, bridges and other parts

This class excludes:

- *manufacture of non-metallic watch bands, see 19.20*

Subsection DM Manufacture of transport equipment

34 Manufacture of motor vehicles, trailers and semi-trailers

34.1 Manufacture of motor vehicles

34.10 Manufacture of motor vehicles

This class includes:

- manufacture of passenger cars
- manufacture of commercial vehicles:
 - vans, lorries, over-the-road tractors for semi-trailers, dumpers for off-road use, etc.
- manufacture of buses, trolley-buses and coaches
- manufacture of motor vehicle engines
- manufacture of chassis fitted with engines
- manufacture of other motor vehicles:
 - snowmobiles, golf carts, amphibious vehicles
 - fire engines, street sweepers, travelling libraries and banks, etc.

This class also includes:

- manufacture of motor cycle engines

This class excludes:

- *manufacture of agricultural and industrial tractors, see 29.31, 29.52*
- *manufacture of electrical parts for motor vehicles, see 31.61*
- *manufacture of bodies for motor vehicles, see 34.20*
- *manufacture of parts and accessories for motor vehicles, see 34.30*
- *maintenance, repair and alteration of motor vehicles, see 50.20*

34.2 Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers

34.20 Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers

This class includes:

- manufacture of bodies, including cabs for motor vehicles

- outfitting of all types of motor vehicles, trailers and semi-trailers
- manufacture of trailers and semi-trailers:
 - tankers
 - caravan trailers, etc.
- manufacture of containers for carriage by one or more modes of transport

This class excludes:

- *manufacture of trailers and semi-trailers specially designed for use in agriculture, see 29.32*

34.3 Manufacture of parts and accessories for motor vehicles and their engines

34.30 Manufacture of parts and accessories for motor vehicles and their engines

This class includes:

- manufacture of diverse parts and accessories for motor vehicles:
 - brakes, gear boxes, axles, road wheels, suspension shock absorbers, radiators, silencers, exhaust pipes, catalysers, clutches, steering wheels, steering columns and steering boxes
- manufacture of parts and accessories of bodies for motor vehicles:
 - safety belts, airbags, doors, bumpers

This class also includes:

- manufacture of inlet and exhaust valves of internal combustion engines

This class excludes:

- *manufacture of batteries for vehicles, see 31.40*
- *manufacture of electrical equipment for motor vehicles, see 31.61*
- *maintenance, repair and alteration of motor vehicles, see 50.20*

35 Manufacture of other transport equipment

35.1 Building and repairing of ships and boats

35.11 Building and repairing of ships

This class includes:

- building of commercial vessels: passenger vessels, ferry-boats, cargo ships, tankers, etc.
- building of warships
- building of fishing boats

This class also includes:

- construction of drilling platforms, floating or submersible
- construction of floating structures:
 - floating docks, pontoons, coffer-dams, floating landing stages, buoys, floating tanks, barges, lighters, etc.
- maintenance, repair or alteration of ships

This class excludes:

- *manufacture of ships' propellers, see 28.75*
- *manufacture of marine engines, see 29.11*
- *manufacture of navigational instruments, see 33.20*
- *manufacture of amphibious motor vehicles, see 34.10*
- *manufacture of inflatable boats or rafts, see 35.12*

35.12 Building and repairing of pleasure and sporting boats

This class includes:

- building of inflatables
- building of sailboats with or without auxiliary motor
- building of motor boats
- building of other pleasure and sporting boats:
 - canoes, kayaks, skiffs
- maintenance, repair or alteration of pleasure boats

This class excludes:

- *manufacture of marine engines, see 29.11*

- *manufacture of sailboards, see 36.40*

35.2 Manufacture of railway and tramway locomotives and rolling stock

35.20 Manufacture of railway and tramway locomotives and rolling stock

This class includes:

- manufacture of electric and diesel rail locomotives
- manufacture of self-propelled railway or tramway coaches, vans and trucks, maintenance or service vehicles
- manufacture of railway or tramway rolling stock, not self-propelled:
 - passenger coaches, goods vans, tank wagons, self-discharging vans and wagons, workshop vans, crane vans, tenders, etc.
- manufacture of specialized parts of railway or tramway locomotives or of rolling stock:
 - bogies, axles and wheels, brakes and parts of brakes; hooks and coupling devices, buffers and buffer parts; shock absorbers; wagon and locomotive frames; bodies; corridor connections, etc.

This class excludes:

- *manufacture of unassembled rails, see 27.10*
- *manufacture of engines and turbines, see 29.11*
- *manufacture of electric motors, see 31.10*
- *manufacture of electrical signalling, safety or traffic-control equipment, see 31.62*

35.3 Manufacture of aircraft and spacecraft

35.30 Manufacture of aircraft and spacecraft

This class includes:

- manufacture of aeroplanes for the transport of goods or passengers, for use by the defence forces, for sport or other purposes
- manufacture of helicopters
- manufacture of gliders, hang-gliders
- manufacture of dirigibles and balloons
- manufacture of spacecraft and spacecraft launch vehicles, satellites, planetary probes, orbital stations, shuttles
- manufacture of parts and accessories of the aircraft of this class:
 - major assemblies such as fuselages, wings, doors, control surfaces, landing gear, fuel tanks, nacelles, etc.
 - airscrews, helicopter rotors and propelled rotor blades
 - motors and engines of a kind typically found on aircraft
 - parts of turbojets and turbopropellers
- manufacture of aircraft launching gear, deck arresters, etc.
- manufacture of ground flying trainers

This class excludes:

- *manufacture of parachutes, see 17.40*
- *manufacture of military ballistic missiles, see 29.60*
- *manufacture of ignition parts and other electrical parts for internal combustion engines, see 31.61*
- *manufacture of instruments used on aircraft, see 33.20*
- *manufacture of air navigation systems, see 33.20*

35.4 Manufacture of motorcycles and bicycles

35.41 Manufacture of motorcycles

This class includes:

- manufacture of motorcycles, mopeds and cycles fitted with an auxiliary engine
- manufacture of side-cars
- manufacture of parts and accessories for motorcycles

This class excludes:

- *manufacture of engines for motorcycles, see 34.10*

- *manufacture of parts of motorcycle engines, see 34.30*
- *manufacture of bicycles , see 35.42*
- *manufacture of invalid carriages, see 35.43*

35.42 Manufacture of bicycles

This class includes:

- manufacture of non-motorized bicycles and other cycles (including delivery tricycles)
- manufacture of parts and accessories of bicycles

This class excludes:

- *manufacture of bicycles with auxiliary motor, see 35.41*
- *manufacture of children's cycles other than bicycles, see 36.50*

35.43 Manufacture of invalid carriages

This class includes:

- manufacture of invalid carriages with or without motor
- manufacture of parts and accessories of invalid carriages

35.5 Manufacture of other transport equipment n.e.c.

35.50 Manufacture of other transport equipment n.e.c.

This class includes:

- manufacture of wheelbarrows, luggage trucks, hand-carts, etc.
- manufacture of vehicles drawn by animals

Subsection DN Manufacturing n.e.c.

36 Manufacture of furniture; manufacturing n.e.c.

Please note that division 36 is a residual division. The usual criteria for grouping classes into divisions have not been applied here.

Repair of products from division 36 generally fall under group 52.7 (repair of personal and household goods), except repair of furniture, musical instruments, professional sports equipment, automatic bowling alley equipment and the like.

36.1 Manufacture of furniture

36.11 Manufacture of chairs and seats

This class includes:

- manufacture of chairs and seats for offices, workrooms and domestic premises, of any material
- manufacture of chairs and seats for theatres, cinemas and the like, of any material
- manufacture of chairs and seats for transport equipment, of any material
 - manufacture of sofas, sofa beds and sofa sets
 - manufacture of garden chairs and seats

This class also includes:

- finishing such as upholstery of chairs and seats

This class excludes:

- *manufacture of medical, surgical, dental or veterinary furniture, see 33.10*

36.12 Manufacture of other office and shop furniture

This class includes:

- manufacture of special furniture for shops: counters, display cases, shelves, etc.
- manufacture of office furniture
- manufacture of furniture for churches, schools, restaurants

This class excludes:

- *manufacture of lighting fittings or lamps, see 31.50*

- *manufacture of medical, surgical, dental or veterinary furniture, see 33.10*

36.13 Manufacture of other kitchen furniture

This class includes:

- manufacture of kitchen furniture of any material

36.14 Manufacture of other furniture

This class includes:

- manufacture of furniture for bedrooms, living rooms, gardens, etc.

This class also includes:

- finishing of furniture such as spraying, painting, French polishing and upholstering except of chairs and seats

This class excludes:

- *manufacture of lighting fittings or lamps, see 31.50*

36.15 Manufacture of mattresses

This class includes:

- manufacture of mattress supports
- manufacture of mattresses:
 - mattresses fitted with springs or stuffed or internally fitted with a supporting material
 - uncovered cellular rubber or plastic mattresses

This class excludes:

- *manufacture of pillows, pouffes, cushions, quilts and eiderdowns, see 17.40*
- *manufacture of inflatable mattresses, see 25.13*

36.2 Manufacture of jewellery and related articles

36.21 Striking of coins

This class includes:

- manufacture of coins, including coins for use as legal tender, whether or not of precious metal

36.22 Manufacture of jewellery and related articles n.e.c.

This class includes:

- production of worked pearls
- production of precious and semi-precious stones in the worked state. Included is the working of industrial quality stones and synthetic or reconstructed precious or semi-precious stones
- working of diamonds
- manufacture of jewellery of precious metal or of base metals clad with precious metals, or precious or semi-precious stones, or of combinations of precious metal and precious or semi-precious stones or of other materials
- manufacture of goldsmiths' articles of precious metals or of base metals clad with precious metals:
 - dinnerware, flatware, hollowware, toilet articles, office or desk articles, articles for religious use, etc.

This class also includes:

- personalised engraving on objects of precious metals

This class excludes:

- *manufacture of articles of base metal plated with precious metal, see 28*
- *manufacture of watch cases and metal straps, see 33.50*
- *manufacture of imitation jewellery, see 36.61*

36.3 Manufacture of musical instruments

36.30 Manufacture of musical instruments

This class includes:

- manufacture of stringed instruments
- manufacture of keyboard stringed instruments, including automatic pianos
- manufacture of keyboard pipe organs, including harmoniums and similar keyboard instruments with free metal reeds
- manufacture of accordions and similar instruments, including mouth organs
- manufacture of wind instruments
- manufacture of percussion musical instruments
- manufacture of musical instruments, the sound of which is produced electronically
- manufacture of musical boxes, fairground organs, calliopes, etc.
- manufacture of instrument parts and accessories:
 - metronomes, tuning forks, pitch pipes, cards, discs and rolls for automatic mechanical instruments, etc.

This class also includes:

- manufacture of whistles, call horns and other mouth-blown sound signalling instruments

This class excludes:

- *publishing and reproduction of pre-recorded audio and video tapes, CDs and DVDs, see 22.1, 22.3, 92.11*
- *manufacture of microphones, amplifiers, loudspeakers, headphones and similar components, see 32.30*
- *manufacture of record players, tape recorders and the like, see 32.30*
- *manufacture of toy instruments, see 36.50*
- *piano tuning, see 52.74*

36.4 Manufacture of sports goods

36.40 Manufacture of sports goods

This class includes:

- manufacture of articles and equipment for sports, outdoor and indoor games:
 - hard, soft and inflatable balls
 - rackets, bats and clubs
 - skis, bindings and poles
 - sailboards
 - requisites for sport fishing, including landing nets
 - requisites for hunting, mountain climbing, etc.
 - leather sports gloves and sports headgear
 - basins for swimming and paddling pools, etc.
 - ice-skates, roller-skates, etc.
 - bows and crossbows
 - gymnasium, fitness centre or athletic equipment

This class excludes:

- *manufacture of boat sails, see 17.40*
- *manufacture of sport clothing, see 18*
- *manufacture of saddlery and harness, see 19.20*
- *manufacture of sports footwear, see 19.30*
- *manufacture of weapons and ammunition, see 29.60*
- *manufacture of sports vehicles other than toboggans and the like, see 34, 35*
- *manufacture of boats, see 35.12*
- *manufacture of billiard tables and bowling equipment, see 36.50*
- *manufacture of whips and riding crops, see 36.63*

36.5 Manufacture of games and toys

36.50 Manufacture of games and toys

This class includes:

- manufacture of dolls and doll garments and accessories
- manufacture of toy animals
- manufacture of wheeled toys designed to be ridden, including tricycles
- manufacture of toy musical instruments

- manufacture of articles for funfair, table or parlour games
- manufacture of playing cards
- manufacture of pin-tables, coin-operated games, billiards, special tables for casino games, automatic bowling alley equipment, etc.
- manufacture of electronic games: video game machines, chess, etc.
- manufacture of reduced-size ('scale') models and similar recreational models, electrical trains, construction sets, etc.
- manufacture of puzzles, etc.

This class excludes:

- *manufacture of bicycles, see 35.42*
- *manufacture of festive, carnival or other entertainment articles, see 36.63*
- *publishing of computer game software, see 72.21*

36.6 Miscellaneous manufacturing n.e.c.

36.61 Manufacture of imitation jewellery

36.62 Manufacture of brooms and brushes

This class includes:

- manufacture of brooms and brushes, including brushes constituting parts of machines, hand-operated mechanical floor sweepers, mops and feather dusters, paint brushes, paint pads and rollers, squeegees and other brushes, brooms, mops, etc.
- manufacture of shoe and clothes brushes

36.63 Other manufacturing n.e.c.

This class includes:

- manufacture of pens and pencils of all kinds whether or not mechanical
- manufacture of pencil leads
- manufacture of date, sealing or numbering stamps, hand-operated devices for printing, or embossing labels, hand printing sets, prepared typewriter ribbons and inked pads
- manufacture of baby carriages
- manufacture of umbrellas, sun-umbrellas, walking-sticks, seat-sticks, whips, riding-crops, buttons, press-fasteners, snap-fasteners, press-studs, slide fasteners
- manufacture of cigarette lighters and matches
- manufacture of articles of personal use: smoking pipes, combs, hair slides, scent sprays, vacuum flasks and other vacuum vessels for personal or household use, wigs, false beards, eyebrows
- manufacture of roundabouts, swings, shooting galleries and other fairground amusements
- manufacture of linoleum and hard non-plastic surface floor coverings
- manufacture of miscellaneous articles: candles, tapers and the like, artificial flowers, fruit and foliage, jokes and novelties, hand sieves and hand riddles; tailors' dummies, etc.
- taxidermy activities

This class excludes:

- *manufacture of lighter wicks, see 17.54*

37 Recycling

This division includes:

- processing of waste and scrap and other articles, whether used or not, into secondary raw material. A transformation process is required, either mechanical or chemical. Typical is that in terms of commodities, input consist of waste and scrap, the input being sorted or unsorted but normally unfit for further direct use in an industrial process whereas the output is made fit for direct use in an industrial manufacturing process. The resulting secondary raw material is to be considered as an intermediate good, with a value but is not a final new product

This division excludes:

- *manufacture of new final products from (whether or not self-manufactured) secondary raw material, see 14 to 36*
- *wholesale of waste and scrap, including collecting, sorting, separating, stripping of used goods such as cars in order to obtain reusable parts, (re-)packing, storage and delivery, but without a real transformation process, see 50, 51, 52*

- *wholesale or retail sale of second-hand goods, see 50, 51, 52.50*
- *treatment of waste, not for further use in an industrial manufacturing process, but with the aim of disposal, see 90*

37.1 Recycling of metal waste and scrap

37.10 Recycling of metal waste and scrap

This class includes:

- processing of metal waste and scrap and of metal articles into secondary raw material. Examples for mechanical or chemical transformation processes are:
 - mechanical crushing of metal waste such as used cars, washing machines, bikes, etc. with subsequent sorting and separation
 - mechanical reduction of large iron pieces such as railway wagons
 - shredding of metal waste, end of life vehicles, etc.
 - other methods of mechanical treatment such as cutting, pressing to reduce the volume

This class excludes:

- *manufacture of new final metals or new final metal products from (whether or not self-manufactured) secondary metal raw materials, see 27 or 28*
- *car dismantling sites, demolition of machinery, computers in order to obtain reusable parts etc., including trade in second-hand spare parts, see 50, 51, 52*
- *disposal of used goods such as refrigerators to eliminate harmful waste, see 90*

37.2 Recycling of non-metal waste and scrap

37.20 Recycling of non-metal waste and scrap

This class includes:

- processing of non-metal waste and scrap and of non-metal articles into secondary raw material. Examples for transformation processes are:
 - reclaiming of rubber such as used tyres to produce secondary raw material
 - sorting and pelleting of plastics to produce secondary raw material for tubes, flower pots, pallets and the like
 - processing (cleaning, melting, grinding) of plastic or rubber waste to granulates
 - reclaiming of chemicals from chemical waste
 - crushing, cleaning and sorting of glass
 - crushing, cleaning and sorting of other waste such as demolition waste to obtain secondary raw material
 - mechanical crushing and grinding of waste from the construction and demolition of buildings (including wood), asphalt
 - processing of used cooking oils and fats into secondary raw materials for pet food or feed for farm animals
 - processing of other food waste and food residual substances into secondary raw material

This class excludes:

- *production of new final products from (whether or not self-manufactured) secondary raw material such as spinning of yarn from garnetted stock or making pulp from waste paper or retreading tyres should be classified in the appropriate class of manufacturing, see 14 to 36*
- *treatment of food residual substances to manufacture food products, see 15*
- *treatment of slaughter waste to produce animal feeds, see 15.7*
- *reprocessing of nuclear fuels and treatment of radioactive nuclear waste, see 23.30*
- *manufacture of compost, see 24.15*
- *wholesale in non-metal waste and scrap, including collecting, sorting, packing, dealing, etc., but without a real transformation process, see 51.57*
- *wholesale or retail sale in second-hand goods, see 50, 51, 52.50*
- *incineration, dumping, burying, etc. of waste, see 90*
- *treatment and disposal of transition radioactive waste from hospitals, etc., see 90*
- *treatment and disposal of toxic, contaminated waste, see 90*
- *disposal of food, beverages and tobacco waste, see 90*
- *waste treatment by composting plants with the aim of disposal and a resulting by-product (compost), see 90.02*

