

23 Fat and oil industry

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- 23a Extraction and purification of fats, fatty oils, waxes and essential [ethereal] oils, blending of perfumes**
- 23b Extraction of mineral oils by chemical processes, distillation, refining and fractionation of mineral oils, extraction and refining of paraffin and mineral wax, illuminating oils and fuel oils**
- 23c Lubricants and dispersions**
- 23d Fatty acids, candles, chemical part; distillation apparatus**
- 23e Soaps, washing and cleaning agents, soap preparations, glycerin, chemical part, saponification and distillation apparatus**
- 23f Fats, soaps, candles, mechanical part**
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- 23a Extraction and purification of fats, fatty oils, waxes and essential [ethereal] oils, blending of perfumes**
- 23a-1 Extraction of fats, fatty oils and waxes by rendering and pressing (oil presses 58a, 58b; oil-cake breakers and cutters 45e-39, 45e-35/24)
- 23a-2 Solvent extraction of fats and oils
- 23a-3 Purification of fats and oils, including whale oil and wax (montan wax 12r-3/01, 12r-3/02; hydrogenation 23d-2)
- 23a-4 Recovery of fats from waste waters and other waste products (wool fat 23a-5; lubricants 23c-1) and from wool waste (also 8a-5; sewer grease traps 85e-9)
- 23a-5 Extraction and purification of wool fat [lanoline]
- 23a-6 Perfumes: extraction and purification of essential oils, artificial production of flower scents by blending scents, fixatives and solvents for perfumes
- 23b Extraction of mineral oils by chemical processes, distillation, refining and fractionation of mineral oils, extraction and refining of paraffin and mineral wax, illuminating oils and fuel oils (processing of tar and tar fractions from solid fuels 12r)**
- 23b-1/01 Extraction of mineral oils from oil sands and oil shales by chemical methods (mechanical dressing of oil sands, oil chalks and oil shales 1a-39; 5a-41; production of lubricants (lubricating oils) by polymerisation and condensation 23c-1/01) and refining wastes such as fuller's earth and acid sludge
- 23b-1/02 Separation of gasoline from natural gases and from the gases obtained by the fractionation of high-boiling mineral oils (conversion of natural gases 12o-1/06, 12o-19)
- 23b-1/03 Distillation of mineral oils (distillation of tar oils 12r-1/02)
- 23b-1/04 Cracking of high-boiling mineral oils into lower boiling mineral oils (cracking of tar oils 12r-1/03; cracking by hydrogenation under high pressure 12o-1/05)
- 23b-1/05 Refining and dehydration of mineral oil, distillation and fractionation products thereof, breaking of mineral oil emulsions (refining of tar oils 12r-1/04; regeneration of lubricants 23c-1/05; treatment of mineral oils with solvents, general, 23b-2/01)
- 23b-2/01 Extraction of paraffin, and de-paraffining of mineral oils, treatment of mineral oils with solvents, general (de-paraffining tar oils 12r-1/05)
- 23b-2/02 Refining of paraffin and mineral wax
- 23b-4/02 Illuminating and fuel oils (solidifying petroleum and illuminating substances 23c-3; solidifying liquid fuels for heating purposes 10b-11/01 – 10b-11/03)

23c Lubricants and dispersions

- 23c-1/01 Lubricants, general (distillation 23b-1/03, 12r-1/02; by hydrogenation 12o-1/02, 12o-1/05; by treatment of the mineral oils and tar oils with selective solvents 23b-2/01, 12r-1/05; production of high molecular hydrocarbons by polymerization or condensation 12o-1/01, 12o-1/06; engine lubricants for external use 46a6-7); mould separation agents
- 23c-1/02 Electrolysis of hydrocarbons, fats and fatty oils
- 23c-1/04 Boring and cutting oils and other fats and oils or fat and oil dispersions used as cooling and lubricating agents in the machining of metal, e.g. drawing oils; fatty antifriction agents
- 23c-1/05 Regeneration of lubricants (from wool waste also 8a-5; magnetic purification of lubricants 23c-1/06)
- 23c-1/06 Magnetic purification of lubricating oils and other liquids (of lubricating oils in internal combustion engines 46c1-14; magnetic dressing of ores, fuels and other minerals 1b-1)
- 23c-2 Preparation of fat and oil dispersions, suspensions and emulsions of paraffin and bitumen dispersions for various purposes (dispersions, general 12s; mechanical dispersing agents 12e-4/50; bitumen dispersions for building purposes, especially for road construction 80b-25/06; 19c-3, 19c-7/00; fat and oil dispersions for lubrication purposes, such as boring and cutting oils 23c-1; for therapeutic purposes 30h-2, 30h-9/04; for cosmetic purposes 30h-13; for the textile industry 8i, 8k, 8m, 8o, 29b-4 – 29b-6; for the leather industry 28a; for the paper industry 55c-2, 55f-11; for the food industry 53e-5, 53e-6/01, 53h-1/01 – 53h-1/03, 53i, 53h; rubber dispersions 39b-1; fuel-oil dispersions 10b-11/02; 23b-4/02; for flotation purposes 1c; for painting purposes, inks, stamp inks, artists' colours, shoe polish, polishing waxes, corrosives, scouring, cleaning and polishing agents 22g; for photographic purposes 57b-6/01, 57b-8 – 57b-9)
- 23c-3 Solidification of petroleum for the manufacture of petroleum soaps, illuminating and lubricating substances (10b-11/02; 12c-3)
- 23c-4 Production, refining and regeneration of insulating oil (refining of mineral oil, distillation and fractionation products thereof 23b-1/05; refining of tar oils 12r-1; electrical applications of insulating oil 21c-2/12, 21c-36; 21d2-50)
- 23c-5 Brake transmission fluids (20b-5; 20f-43; 35a-2; 35d-5; 47a-16/10; 47c-14; 47h-18; 47h-22; 58a-1 – 58a-8; 58a-59; 61a; 63a-34; 63a-53; 63c-54; 65a2-8; 68d-9 – 68d-17; 72c; 72h; 81e; 84b; 87b)

23d Fatty acids, candles, chemical part; distillation apparatus

- 23d-1 Production of fatty acids by fractionation of natural oils and by distillation (synthesis 12o-11, 23d-4)
- 23d-2 Hydrogenation of fatty acids, fatty oils and fats
- 23d-3 Candles (mechanical part 23f-5)
- 23d-4 Processing of the hydrocarbons oxidation products to higher molecular weight fatty acids or their salts (preparation of the oxidation products 12o-11)

23e Soaps, washing and cleaning agents [also bleaching-agent containing], soap preparations, glycerine, chemical part; saponification and distillation apparatus

- 23e-1 Manufacture of soaps
- 23e-2 Washing and cleaning agents, also bleaching-agent containing (washing processes, bleaching processes 8i; cleaning agents for metal, dishes, etc. 22g-14; bleaching agents without washing agents 8i-1, 8i-2)
- 23e-3 Production of resin soaps and resin sizes
- 23e-4 Production of medicated soaps
- 23e-5 Glycerine: preparation, purification and distillation (12o-5/03)

- 23f** **Fats, soaps, candles, mechanical part** (chemical part 23a, 23d, 23e)
- 23f-1 Methods and machines for shaping soaps and fatty materials by casting, pressing and by stamping
 - 23f-2 Machines for shaving, polishing and cutting soap and fats
 - 23f-3 Manufacture of soap cakes with inclusions
 - 23f-4 Manufacture of soap powder or flakes
 - 23f-5 Machines for casting, cutting and processing candles