6 Fermentation industry: alcohol, brandy, beer, wine, vinegar, yeast, other fermenting agents and products, enzymes

6a	Malt, hops, yeast, other fermenting agents
6b	Mash and wort, preparation and fermentation; distillation and rectification of alcoholic and fermented liquids
6c	Preparation of wine, sparkling wine and liqueurs
6d	Preservation, clarification, aging
6e	Vinegar manufacture
6f	Barrel cleaning, pitching and pitch removing devices, barrel burners, bung devices, fermentation bungs, cellarage implements, materials for the lining of fermentation, storage, and transportation vessels

6a Malt, hops, yeast, other fermenting agents

Malt

	indit.
6a-1	Washing and steeping of barley for the preparation of malt, including soft water treatment
6a-2	Malting processes and control devices for malting purposes, kiln drying of malt (malt kilns 6a-6, 6a-7; kilns, in general 82a)
6a-2/01	production of special kinds of malt, e.g. sour malt, peel malt, malt produced by high- temperature germination, caramel malt, and amber malts
6a-3	Floor and multiple story malting and aeration devices
6a-4	Drum malting and aeration devices
6a-5	Box malting and aeration devices
6a-6	Stationary malt kilns and aeration devices (in general 82a-2)
6a-7	Mobile malt kilns and aeration devices (in general 82a-2)
6a-8	Malt turners
6a-9	Malt purification devices
6a-10	Germination vessels, aeration and malt charging devices, miscellaneous
	Hop (hop picking machines 45e-21)
6a-11	Hop kilns (malt kilns 6a-6, 6a-7; general 82a-2)
6a-12	Hop containers
6a-13	Processing of hops, preserving and preparation of hop extract (6b-14)
	Yeast and ferments, in general, and other technically suitable microorganisms (microorganisms for therapeutic uses 30h-6, 30h-14; yeast preparations 6a-22/06; yeast containing materials 39b-20)
6a-14	Pure propagation and cultures of fermenting agents, such as yeast and other technically suitable microorganisms
6a-15/01	Pure propagation apparatus and yeast cultivating devices
6a-15/02	Fermentation vats and accessories, clearing devices
6a-15/03	Aeration processes and devices, valves (general 47g) and distributors
6a-16	Pitching yeast fermentation, preparation of sour sediments
	Production of yeast, especially baking, compressed, food and fodder yeast, combined processes for the production of yeast and alcohol (6b-16; 6b-17)
6a-17/01	from wheat, potatoes, etc.

- 6a-17/02 from molasses, sugar and distillers' wash
 6a-17/03 from cellulose saccharification products
 6a-18 Elimination of fermentation froth
 6a-19 Yeast separation, cooling, washing, filtering, pressing and cutting
 6a-20 Subsequent treatment of yeast, elimination of the bitter taste from beer yeast and refermenting thereof
 6a-20/01 Processes and means for promoting or inhibiting fermentation
 6a-21 Drying, preserving and storing of yeast, including wine yeast
- Enzymes and enzyme preparations, malt and yeast extracts and preparations 6a-22/01 from plants, in general
- 6a-22/02 from malt
- 6a-22/03 Malt extracts and preparations
- 6a-22/04 from microorganisms, in general
- 6a-22/05 from yeast
- 6a-22/06 Yeast extracts and preparations
- 6a-22/07 from animal body parts and fluids
- 6a-22/10 Miscellaneous

6b Mash and wort, preparation and fermentation; distillation and rectification of alcoholic and fermented liquids

Preparation of mash and wort for yeast and other fermentation processes (6b-16)

Raw material preparation

6b-1/01 Cold crushing, grinding, and comminuting under pressure

6b-1/02	Preparing and purifying molasses, sugar products, distillery water, cellulose-
	saccharification products and sulphite liquors

- 6b-1/03 Water treatment
- 6b-2 Raw material steaming, comminutors, also applicable to comminution under pressure and boiling apparatus

Saccharification processes (89i), malt processing

- 6b-3/01 Saccharification by means of enzymes or other microorganisms (chemical starch saccharification 89i-1/01; saccharification of cellulose by hydrolysis 89i-1/02)
- 6b-4 Mashing apparatus with horizontal stirring shafts, spiral cooling coils
- 6b-5 Mashing apparatus with vertical stirring shafts
- 6b-6 Special mashing apparatus, especially mash coolers and centrifugal mixers
- 6b-7 Hullers

Preparation of wort for beer manufacture

- 6b-8/01 Brewing processes and beer manufacture in general
- 6b-8/02 Manufacture of special beers, e.g. strong beers, top fermentation beers, vitamin beers, etc.
- 6b-8/03 Beer colouring materials and colouring
- 6b-9 Pre-mashing and charging, including pre-cooling
- 6b-10 Stirring and spent grain removers
- 6b-11 Clarification processes and vats, mash distributors, centrifugation and filtration
- 6b-12 Steam-heated brewing kettles and accessories
- 6b-13 Fire-heated brewing kettles and accessories, vapour condensers (firing 24a-13)
- 6b-14 Beer wort treatment and related devices such as hop boilers, hop strainers, sterilising vessels, etc. (6a-13)
- Cooling the beer wort (coolers, in general, 17f)
- 6b-15/01 Settling vats
- 6b-15/02 Cooling vessels

6b-15/03	Special cooling processes and installations, if not dealt with under 17e and 17f, and 64c-14/01
6b-15/08	Storage cellar cooling
	Fermentation of mash and wort, treatment thereof, and beer carbonation
	Fermentation processes (6a-16)
6b-16/01	for alcohol production
6b-16/02	for the production of higher alcohols, acetone derivatives, lactic acid, butyric acid, acetic acid, citric acid, glycerine, etc.
6b-16/03 6b-17	Special fermentation processes, biological production of fats and proteins Storage vessels and tapping devices therefor (6f-5)
6b-18	Cooling apparatus for fermentation and storage vessels (6b-4; 6b-5; 6b-6)
6b-19	Production of carbon dioxide for use in fermentation
6b-20	Carbonation of beer with carbon dioxide
6b-21/01	Non-alcoholic and low alcohol-content beverages in which fermentation takes place (produced without fermentation 53k-1/30; mineral waters 85a-2 – 85a-5) Production by dealcoholisation of beer
6b-21/02 6b-21/03	Production by special brewing and fermenting processes using malt and beer yeast Beer-like and other fermented beverages
	Distillation and rectification of alcoholic and fermented liquids including the addition of liquids and substances, and denaturing and purification of fermentation products
6b-22	Discontinuous distillation of alcoholic and fermented liquors, retorts (distillation, in general, 12a)
6b-23	Continuous distillation of fermented liquors and the like
6b-24	Discontinuous rectification of alcohol and the like
6b-25	Continuous rectification of alcohol and the like, separation of head and tail products
6b-26	Combined distillation and rectification
6b-26/10	Production of anhydrous alcohols by azeotropic distillation with liquid additives such as gasoline or benzene, and by distillation with added lime, gypsum or other water- absorbing salts (12a-5; 12o-11, 12o-12)
6b-27/01	Dephlegmators and other distilling accessories
6b-27/02	Alcohol preparation from baking oven fumes
6b-28	Auxiliary apparatus for the distillation, rectification and purification of fermentation products
6b-29	Denaturing of alcohol
6b-30	Elimination of impurities from alcohols and other fermentation products by processes other than distillation (6b-22 – 6b-26)
6c	Preparation of wine, sparkling wine and liqueurs (aging of wine 6d-6)
6c-1	Preparation and treatment of wine in general (wine presses 58a-5, 58b-10)
6c-1/01	Sparkling wine preparation and carbonation of wine and other alcoholic beverages with carbon dioxide (carbonation of beer with carbon dioxide 6b-20)
6c-2	Yeast removal from wine
6c-3	Preparation and treatment of alcoholic beverages other than beer and wine, e.g. of fruit and berry wines, liqueurs
6c-4	Preparation of bouquet substances
6d	Preservation, clarification, aging
6d-1	Pasteurisation of beer and wine in bottles (milk 53e-1)
0 1 0	Desteurisation of bear in barrals or other large containers (201, 52a 4, 52a 2)

- 6d-2 Pasteurisation of beer in barrels or other large containers (30i; 53e-1; 53e-2)
- 6d-3 Preservation and clarification of beer, wine and the like (6b-14; 6b-15)

6d-6	Aging of alcoholic liquids
6e	Vinegar manufacture (wood vinegar 12r-2; acetic acid 12o-12)
6e	(Not subdivided)
6f	Barrel cleaning, pitching and pitch removing devices, barrel burners, bung devices, fermentation bungs, cellarage implements, materials for the lining of fermentation, storage, and transportation vessels (brewer's pitch 22h-8)
6f-1	Devices for cleaning and drying barrels and the like
6f-2	Chemical agents and methods for the treatment of barrage, cellarage implements and beer feeding pipes (mechanical cleaning of beer feeding pipes 64b-7; prevention of milkstone 53e-7)
6f-2/01	Materials for the lining of fermentation, storage, and transportation vessels

- 6f-2/01Materials for the lining of fermentation, storage, and transportation vessels6f-3Barrel pitching and pitch removing devices, barrel burners, barrel rolling devices
- 6f-4 Fermentation bungs (bungs, 64c-21 64c-26)
- 6f-5 Cellarage implements