

Description of Operations for Dyeing or Printing Process

The descriptions of each operation listed in the note1 to Section XI (chapter 50-63) of Annex 2, is based on the Japanese Industrial Standard established by the Ministry of Economy, Trade and Industry.

No.	Operation	Description
(1)	antibacterial finish	The finishing by which the multiplication of bacteria on fibre is restrained and the deodorizing effect is given.
(2)	antimelt finish	The finishing carried out for the addition of the property in which woven and knitted fabric is prevented from melting by heat. It is carried out for preventing the phenomenon in which a hole is made in synthetic fibre product by the fire of cigarette and the friction heat at the time of sliding.
(3)	antimosquito finish	The finishing by which human body is prevented from approaching of mosquitoes by sticking of the mosquito inhibiting agent to woven and knitted fabric.
(4)	anti-pilling finish	The finishing carried out for the purpose of preventing from the producing of pill caused by the friction on the surface of woven and knitted fabric. There are the fixation of fibre by resin treatment, gas singeing, the removal of long fluff by shearing, the degradation of fluff by chemical treatment, etc.
(5)	antistatic finish	The finishing carried out for the purpose of decreasing the static electricity generating on fibre. The hygroscopic agent such as higher alcohol, surface active agent and the antistatic agent such as quaternary ammonium salt, polymer having oxyethylene radical, etc. are used.
(6)	artificial creasing	The finishing by which the durable creases are added to cloth. In synthetic fibre, its thermoplastic property is utilized, and in cellulose sorios of fibre, the cross-linkage reaction by resin finishing agent is utilized.
(7)	bleaching	The treatment which is carried out for decomposing and removing the pigment and coloured impurities contained in fibre by the action of oxidization or reduction and whitening the fibre.
(8)	brushing	The treatment in which the fluff and dust adhering on the surface of fabric are wiped down and the lie of fibre is arranged by using brush-roller, etc.
(9)	buff finish	The raising processing carried out by using the emery paper wound on roll. It is used in various fields such as synthetic fibre woven and knitted fabric, cotton fabric, etc.
(10)	burn-out finish	The finishing in which only one side of fibre is dissolved to remove by utilizing the difference of chemical resistance of the fibre constituting blended yarn fabric and union cloth and the water marked pattern appears.
(11)	calendering	The finishing by which fabric is passed through between various rotating rolls, the surface is smoothened by pressurizing and luster and various feelings are given.
(12)	compressive shrinkage	The finishing in which the density is raised by carrying out of steam pressing mainly cotton fabric, etc. as over-feeding and the shrink resistance is given to it.
(13)	crease resistant finish	The finishing by which wrinkle is made to be difficult to generate on woven and knitted fabric by resin finish, etc.
(14)	decatizing	The finish in which the stability, luster and feeling of cloth are improved by winding up of cloth or wrapping cloth on a porous cylinder and carrying out the heating by steam and cooling by air. The full decatizing (autoclave decatizing machine), semidecatizing (ordinary pressure decatizing machine), continuous decatizing machine, etc. are used. It is the process at about final stage for the finishing of wool fabric.
(15)	deodorant finish	The finishing showing the effect in which uncomfortable odour is reduced by touching of odour component to fibre. The uncomfortable odour means perspiration odour, ageing odour, excretion odour, cigarette odour, trash odour.
(16)	easy-care finish	The finishing carried out for the purpose of being capable of wearing without ironing after washing and drying cotton and its blended yarn fabric.
(17)	embossing	The processing in which fabric, etc. are passed through between an uneven metallic roller heated and an elastic roller, and the uneven patterns are added.
(18)	emerising	The raising processing carried out by using the emery paper wound on roll. It is used in various fields such as synthetic fibre woven and knitted fabric, cotton fabric, etc.
(19)	flame resistant finish	The finishing carried out for the purpose of making fibre to be difficult to ignite and fire-spread. It is applied to working wear, curtain, upholstery fabrics, aged person nursing clothes, bed clothes, etc. which are in danger of catching fire.
(20)	flock finish	The finishing in which fine and short fibres are planted on the surface of cloth, plastic products, etc. in fluff-shaped by using static electricity and adhesive.
(21)	foam printing	The printing in which the printed part is bulged. The printed part is bulged by printing the microcapsule particle enclosing foaming agent with binder together and heat-treating
(22)	liquid ammonia process	The modification finishing of cotton carried out by using liquid ammonia. The effect of much similar to mercerization is obtained, however the improvement of luster and dyeing property is smaller as compared with mercerization. On the other hand, the strength, shrink resistance property (dimensional stability), crease resistance property, setting property, etc. are greatly improved.

No.	Operation	Description
(23)	mercerisation	The finishing which is carried out for giving the improvement of dyeingness, increase of wet strength, silk-like luster, etc. by carrying out the tensional treatment of cotton yarn or cotton woven and knitted fabric in concentrated aqueous solution of sodium hydroxide.
(24)	microbial control finish	The finishing carried out restraining of multiplication of bacteria on fibre. In general use, golden staph, pneumobacillus coliform bacilli, pseudomonas aeruginosa, etc. are made to be the object.
(25)	milling	The felting treatment by which wool fabric is wetted with the solution containing alkali, soap, etc., and struck and rubbed mechanically for making the objective feeling.
(26)	moare finish	One of calendering finish by which woodgrain glossy pattern is given on fabric. The finishing in which the difference is produced in reflection of light between the part of warp pressured and the part without being pressured and woodgrain patterns are made.
(27)	moisture permeable waterproofing	The finishing carried out so as to adding the water resistance property as well as the permeability of water vapour to woven and knitted fabric. It is utilized for sports wear.
(28)	oil-repellent finish	The finishing carried out so as to add the oil-repellent property to textile goods.
(29)	organdie finish	The finishing for obtaining thin, transparent, rigid feeling. In the case of cotton, concentrated sulfuric acid, etc. is reacted at ordinary temperature.
(30)	peeling treatment	The processing for the improvement of texture of woven fabric or sewing products by reducing fibre. There are the alkali peeling treatment for polyester textile and the enzyme peeling treatment for cellulose textile, etc.
(31)	perfumed finish	The finishing carried out for addition of perfume to fibre. There are the method in which perfuming material is enclosed in microcapsule and added to textile product, etc.
(32)	relaxation	The treatment for revealing texturization and crepe in woven and knitted fabric by the heat energy such as dry heat, wet heat, hot water, etc. and the effect of physical rubbing.
(33)	ripple finish	The finishing in which cotton fabric is printed with the paste containing high concentration of sodium hydroxide and three dimensional patterns are made appear by shrinking the part, and after resist style paste is printed, the print part is embossed by applying the concentrated solution of sodium hydroxide and the ripple-like seersucker or crepe like emboss appears.
(34)	schreiner finish	The finish in which woven fabric is passed through the schreiner calender equipped with metallic rolls indented with countless and parallel fine lines, the weave is smoothed and the silky luster is given.
(35)	shearing	The operation by which, after the fluff or the surface of woven and knitted fabric is arranged with brush, it is made run on a edge and cut to arrange in a definite length by using a rotary cutter.
(36)	shrink resistant finish	The finishing by which woven and knitted fabric is not made shrink by washing, hot water treatment.
(37)	soil guard finish	The finishing by which dirt is made difficult to adhere to fibre mainly by using the fluorine series of resin.
(38)	soil release finish	The finishing by which hydrophilic compound is added to hydrophobic synthetic fibre and the dirt is facilitated to remove by washing.
(39)	stretch finish	The finishing in which, after the yarn constituting fabric is bent, then fixed and the stretch property mainly in traverse direction is added.
(40)	tick-proofing	The finishing by which tick is made so as not to approach the human body by sticking the tick inhibiting agent to woven and knitted fabric or by reducing the air permeability of fabric.
(41)	UV cut finish	The finishing carried out for protecting skin by shielding UV so that woven and knitted fabric is impregnated with or stuck to UV absorber.
(42)	wash and wear finish	The finishing carried out for the purpose of being capable of wearing without ironing after washing and drying cotton and its blended yarn fabric.
(43)	water absorbent finish	The finishing in which the hydrophobic surface of synthetic fibre is made hydrophilic and the water absorbing property is raised.
(44)	waterproofing	The finishing by which water is made difficult to pass through woven and knitted fabric.
(45)	water-repellent finish	The finishing carried out so as to add the water-repellent property to fibre.
(46)	wet decatizing	The wet type set in the scouring process of wool fabric. It is also called smoothing with stream or crabbing.
(47)	windbreak finish	The finishing in which wind is made difficult to pass by reducing air permeability by improving the weave of woven and knitted fabric and finishing of resin.
(48)	wire raising	The raising carried out so as to scratch the surface of woven and knitted fabric by using the roll wound with card clothing (wire raising machine).