

ITOFINISH COOL LJ919 is a suspension of a polyester resin in water, that gives a soft handle as well as being durable to washing and having “water absorbency” and “soil release” properties when applied to 100% polyester or its blended fibre.

PROPERTIES

- **Appearance** : White Dispersion.
- **Main Ingredient** : Polyester Resin
- **Ionic Character** : Nonionic.
- **pH** : 6 - 8 (10% aqueous solution at 20°C)
- **Solvent** : Water
- **Solids content** : 15%
- **Dispersion** : Dispersible in water or lukewarm water

APPLICATION

In Padding:

- **ITOFINISH COOL LJ919** : 30 - 40 g/l
- **Drying** : 110°C for 2 min.
- **Curing** : 180°C for 30 seconds

In Exhaustion:

- **ITOFINISH COOL LJ919** : 3 - 4%
- **Liquor Ratio** : 20:1, at 130°C for 20 min.
- **Dehydrating and Drying** : 110°C
- **Curing** : 180°C for 30 seconds

CHARACTERISTICS

1. Imparts excellent water absorbent properties to treated fibres
2. ITOFINISH COOL LJ919 can be applicable at the time of dyeing together with disperse dyestuffs, giving remarkable process elimination and cost efficiency can be achieved.
3. ITOFINISH COOL LJ919 can be applied by exhaustion method (in the dye-bath) as well as by pad
4. When exhausted the durability is excellent and gives a last-long effect for water & sweat absorption properties.
5. When exhaust applied a mild alkaline reduction cleaning is recommended
6. Imparts soil release properties
7. Imparts oil release properties

DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

APPENDIX

1. Water Absorbency test

- 1) **Specimen** 100% polyester jersey
- 2) **Treatment** Pad method : (pick up = 100%)
ITOFINISH COOL LJ920 : 4%
Drying : 110°C for 2 minutes
Curing : 180°C for 30 seconds

3) Test method JIS L-1096 (Pilec’s method)

Specimen is cut to a size of 25 mm x 200 mm. The lower edge is then immersed in water.

Leave at normal temperature for 10 minutes, and measure the height that water has wicked up the fabric specimen.

4) Test result

Auxiliary \ Laundry (times)	0	5	10	15	20
Blank	30	30	28	28	28
Counter product S	135	117	110	105	100
ITOFINISH COOL LJ919	135	118	110	105	100

(Unit: mm)

Note: Laundry is carried out under the condition described as follows:

Using a standard electric home laundry machine and 2 g/l of a commercially available detergent, at 40°C for 5 minutes, and at a liquor ratio 50:1. Each laundry includes 1 wash and hydro-extraction. This also applies to the washes conducted in other tests described below.

2. Soil release property test

- 1) **Specimen** 100% polyester jersey
- 2) **Treatment** Pad method : (pick up = 100%)
ITOFINISH COOL LJ920 : 4%
Drying : 110°C for 2 minutes
Curing : 180°C for 30 seconds

3) Test method

6 pieces of specimen (50 mm x 60 mm) and 10 steel balls are put in 150 ml stain bath* prepared in a launder meter, and operated it 50°C for 10 minutes. After that, measure the degree of staining with a gray scale for staining.

* Note: Stain bath consists of 0.5 g/litre of a stainable substance (stearic acid, oleic acid, hydrogenated oil, solid paraffin, cholesterol, carbon black, etc.) and 1 g/litre of an anionic synthetic detergent.

4) Test result

Laundry (times) Auxiliary	0	5	10	15	20
Blank	1 - 2	1 - 2	1 - 2	1 - 2	1 - 2
Counter product TM	3	3	3	2 - 3	2 - 3
ITOFINISH COOL LJ919	3	3	3	2 - 3	2 - 3

(Unit: grade)

3. Anti-static property

- 1) **Specimen** 100% polyester jersey
- 2) **Treatment** Pad method : (pick up = 100%)
ITOFINISH COOL LJ920 : 4%
Drying : 110°C for 2 minutes
Curing : 180°C for 30 seconds

3) Test method

JIS L-1094 Friction-charged Electrostatic Potential Measuring Method

In a room controlled to a specific atmosphere the test specimen is rubbed using a material stretched under a certain tension. The speed of rubbing is carefully controlled and the static electricity generated is measured.

Material : 100% Cotton shirting

Atmosphere : 20°C, 40% R.H.

Lo : Friction-charged electrostatic (V)

LHz : Time (second) required to half of Lo value after finished rubbing. (Seconds)