

ITOFINISH COOL LJP



ITOFINISH COOL LJP is a durable cooling finish applicable by printing and coating techniques. ITOFINISH COOL LJP is based on xylitol and erythritol, both of which exhibit endothermic reactions with moisture and also includes microencapsulated phase change material to further enhance the cooling effect.

PROPERTIES

- **Appearance** : Milky white liquid
- **pH** : 4.0 - 6.0
- **Solubility** : Easily soluble in water

APPLICATION

In Printing:

- **ITOFINISH COOL LJP** : 100 parts
- **ITOCATALYST SCS NEW** : 2 parts
- **ITOTHICKENER LJ20** : 2.4 parts
- **Drying** : 100°C for 1-2 min
- **Curing (*Max)** : 130°C for 2 min

CHARACTERISTICS

1. Contact with moisture from the skin causes instant cooling effect due to endothermic reaction of the xylitol and erythritol
2. Inclusion of phase change material helps to give cool touch to treated fabrics
3. Can be applied to cotton, polyester, polyester/cotton and polyester/rayon fabrics by printing

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.

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APPENDIX

Cool feeling effect by contact (Q-max)

- **Fabric:** 100% cotton
- **Application:** Print
- **Drying :** 110°C x 2 mins
- **Curing :** 130°C x 2 mins
- **Test method :** KES-F7 Precise and fast thermal property measuring instrument Thermo Lab II
- **Test conditions :** 20°C x 65% RH
- **Washing conditions:** JIS L-0217 No 103 method

	Blank	ITOFINISH COOL LJP	
		Initial	10 wash
Q-max*	0.16	0.374	0.238

* A Q-max value of 0.2 or more is considered a cool touch effect.

Cool feeling effect test

Method:

1. Fold a 10cm x 10 cm fabric in half and place a thermo sensor between the fold.
2. Allow temperature to stabilize in specified conditions (25-27°C x 40% RH)
3. Transfer the fabric and sensor to thermos-hygrostat at 35° x 90% RH
4. Measure the temperature variation every 30 seconds.

Time	Temperature (°C)				
	Blank	Printed Fabric			
		Initial	Difference to blank	10 wash	Difference to blank
0	26.6	26.7	0.1	26.6	0
30	26.9	26.9	0	26.6	0
60	29.0	28.5	-0.5	26.7	-0.3
90	31.6	30.2	-1.6	31.0	-1.0
120	33.6	31.9	-2.0	32.7	-1.5
150	35.1	33.3	-1.8	34.3	-1.0
180	36.0	34.2	-1.8	35.4	-0.6
210	36.5	35.1	-1.0	36.0	-0.5
240	36.7	35.7	-1.0	36.4	-0.3
270	36.8	36.0	-0.8	36.7	-0.1
300	36.8	36.3	-0.5	36.7	-0.1
Max Difference	-	-2.0		-1.5	