

ITOFINISH COOL LJ8 is a durable cooling finish based on xylitol and erythritol, both of which exhibit endothermic reactions with moisture.

PROPERTIES

- **Appearance** : Transparent emulsion
- **Ionic Nature** : Nonionic
- **pH** : 4.0 - 6.0
- **Solubility** : Easily soluble in water

APPLICATION

In Padding:

- **ITOFINISH COOL LJ8** : 50-100g/l
- **ITOXLINKER LJ10**** : 5-10g/l
- **Drying** : 100°C for 1-2 min
- **Curing** : 145°C x 1 minute

In Padding (with resin)

- **ITOFINISH COOL LJ8** : 50-100g/l
- **ITOFONISH COOL LJ2*** : 20-50g/l
- **Drying** : 100°C for 1-2 min

In exhaustion

- **ITOFINISH COOL LJ8** : 5-10%
- **ITOXLINKER LJ10**** : 5g/l
- **Temperature** : 40-50°C x 20 minutes
- **Drying** : 100°C for 1-2 min
- **Curing** : 145°C x 1 minute

*For additional durability while not effecting hydrophilic properties of the fabric.

**For improved durability on polyester but imparting hydrophobic properties to fabric.

CHARACTERISTICS

1. Contact with moisture from the skin causes instant cooling effect due to endothermic reaction of the xylitol and erythritol
2. Uses a new emulsification technique giving the finish durability to washing
3. Emulsion reacts easily with cross-linking agents further increasing the durability to give a long lasting effect
4. Can be applied to cotton, polyester, polyester/cotton and polyester/rayon fabrics by pad or exhaust
5. Imparts soft handle without stiffness
6. ITOFINISH COOL LJ2 can be co-applied to increase durability on cotton and blended fabrics without effecting hydrophilic nature of the fabric
7. ITOXLINKER LJ10 can be co-applied to increase wash durability on polyester fabrics and their blends

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

Application examples

Test method: A water drop (about 0.03 cc) was placed onto the substrate at a temperature of 25 - 30°C (40 % RH). 3 minutes later, the substrate's temperature was determined by thermometer to compare with temperature determined beforehand.

Cooling effect evaluation on 100% cotton knitted cloth

	1	2	3	4	5	
A similar product	Blank	50g/l				
ITOFINISH COOL LJ8			50g/l	50g/l	50g/l	
ITOFINISH COOL LJ2				20g/l		
ITOXLINKER LJ10						20g/l
Water drop absorbency (sec.)						
Initial (HL-0)	0 - 1	> 3 min.	4 - 5	4 - 5	60	
HL-10	0 - 1	--	0 - 1	0 - 1	12 - 15	
HL-30	0 - 1	--	0 - 1	0 - 1	3 - 5	
Cooling effect (°C)						
Initial (HL-0)	-1.2	-2.7	-2.7	-2.7	-2.7	
HL-10	-1.2	-1.2	-2.7	-2.7	-2.7	
HL-20	-1.2	-1.2	-2.3	-2.7	-2.7	
HL-30	-1.2	-1.2	-2.1	-2.5	-2.6	
HL-40	-1.2	-1.2	-1.7	-2.2	-2.2	

Substrate: 100 % cotton knitted cloth Curing: 110°C x 2 min. (Drying only for No. 2)

Cooling effect evaluation by 100 % polyester knitted cloth

	1	2	3	4
A similar product	Blank	50g/l		
ITOFINISH LJ8			50g/l	50g/l
ITOXLINKER LJ10				
Cooling effect (°C)				
Initial (HL-0)	-1.2	- 2.3	- 2.3	- 2.3
HL-10	-1.2	-1.2	-2.3	- 2.3
HL-20	-1.2	-1.2	- 1.6	-2.0

Substrate: 100 % polyester knitted cloth

Drying: 110°C x 3 min. Curing: 160°C x 2 min (Drying only for No. 2)