

ITOGUARD LJMUL is a durable water and oil repellent finish for textiles.

## PROPERTIES

- **Appearance** : Off white emulsion
- **Solids Content** : 30%
- **Ionic Character** : Weakly Cationic
- **Solubility** : Readily dissolves in cold water
- **pH** : 2 - 3.5
- **Storage** : Store between -5°C and 30°C

## APPLICATION

### In Padding:

- **ITOGUARD LJMUL** : 10-80 g/l
- **Drying** : 100°C for 1 min.
- **Curing** : 180°C for 2 min

### In Exhaustion:

- **ITOGUARD LJMUL** : 1-8 %
- **Liquor Ratio** : 10:1, at 40°C for 20 min.
- **Drying** : 100°C for 1 min.
- **Curing** : 180°C for 2 min

## CHARACTERISTICS

1. Imparts excellent water and oil repellence to all fabric types.
2. Excellent durability, particularly on synthetic fibers.
3. Excellent storage stability.
4. Non Flammable.

## 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

### Durability

**Recipe :** Nylon 12g/l  
 PET 12g/l  
 Cotton 40g/l

**Curing :** Nylon 170°C x 30 seconds  
 PET 170°C x 30 seconds  
 Cotton 160°C x 3 min

**Laundering :** AATCC-135

			ITOGUARD LJMUL	Other
Water Repellence (AATCC 22)	Nylon	HL 0	100	100
		HL 10	100-	80+
		HL 20	80	70
	PET	HL 0	100	100
		HL 10	100	100-
		HL 20	100-	100-
	Cotton	HL 0	100	100
		HL 10	70	50-
		HL 20	50	0
Oil Repellence (AATCC 118)	Nylon	HL 0	2	0
		HL 10	0	0
		HL 20	0	0
	PET	HL 0	4	3
		HL 10	3	0
		HL 20	2	0
	Cotton	HL 0	5	4
		HL 10	4	2
		HL 20	2	1

## APPENDIX

### Low Concentration Performance

**Curing :** Nylon 170°C x 30 seconds  
 PET 170°C x 30 seconds  
 Cotton 160°C x 3 min

			ITOGUARD LJMUL	Other
Water Repellence (AATCC 22)	Nylon	2g/l	100	90
		4g/l	100	100
		6g/l	100	100
	PET	4g/l	90	100
		6g/l	100	100
		12g/l	100	100
	Cotton	16g/l	100-	90
		24g/l	100	100-
		32g/l	100	100
Oil Repellence (AATCC 118)	Nylon	2g/l	0	0
		4g/l	2	0
		6g/l	3	1
	PET	4g/l	0	0
		6g/l	2	1
		12g/l	6	3
	Cotton	16g/l	2	1
		24g/l	3	2
		32g/l	4	4

### Peeling strength

- **Fabric :** Nylon Taffeta
- **Application :** Pad
- **Cure :** 170°C x 30 seconds
- **Coating :** Urethane dry type (160°C x 1 min)

		ITOGUARD LJMUL	Other
Strength (g/cm)	10g/l	792	657
	20g/l	822	512