

ITOFINISH LJ3000 is a textile-finishing agent containing capsaicin (chilli extract). Capsaicin is the major pungent ingredient in hot chillies and peppers. ITOFINISH LJ3000 also contains raspberry and squalane, skin friendly moisturisers.

Four main components of ITOFINISH LJ3000 have the following properties.

1. Capsaicin is a generic name of pungent ingredients in hot chillies and peppers.
2. Raspberries contain citric acid, malic acid, polyphenols, vitamins and minerals, that generally have moisture-retaining property.
3. Squalane is a saturated hydrocarbon obtained by the hydrogenation of Squalene extracted from Shark (centrophorus) liver oil. It is also contained in part of the sebum with its permeability, wet ability, and moisture-retaining property.
4. Silicone oil (softening and smoothing ingredient)

An auxiliary ingredient for capsaicin and squalane to improve softness and smoothness.

PROPERTIES

- **Appearance** : Milky white emulsion (With an odour of raspberry)
- **Ionic Character** : Weakly anionic
- **pH** : 5.0-7.0
- **Solubility** : Easily soluble in water (stir solution thoroughly before use)

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.

APPLICATION

In Padding:

- **ITOFINISH LJ3000** : 30-50 g/l
- **ITOBINDER AG** : 50 g/l
- **Drying** : 100°C for 1-2 min.
- **Curing** : 150°C for 1 min.

In Exhaustion

- **ITOFINISH LJ3000** : 3-5%
- **ITOBINDER AG** : 5%
- **Liquor Ratio** : 10:1, at 40°C for 15 min.
- **Dehydrating and Drying** : 100°C
- **Curing** : 150°C for 1 min

MAGNACOLOURS[®]
IMAGINATION INK[™]



MagnaColours Limited
Upper Cliffe Road,
Dodworth Business Park,
Barnsley, S75 3SP, UK

T: 00 44 (0) 1226 731751
F: 00 44 (0) 1226 731752
E: info@magnacolours.com
www.magnacolours.com

Company registered in
England No. 01378495,
VAT No. GB 997 3172 70



APPENDIX

Efficacy of Capsaicin

According to the source book, rats were injected with capsaicin and their oxygen consumption was determined through simultaneously monitoring rectal and skin temperature with time. Increase of rectal or skin temperature should be caused by acceleration of metabolism (calorigenic action) or heat dissipation.

As the result of determination, rats soon exhibited increase of oxygen consumption in accordance with calorigenic action when injected with capsaicin, and gradually decreased 60 minutes later. Additionally, it was found that skin temperature that suggests heat dissipation was also raised synchronously. On the other hand, rectal temperature fell slightly at the beginning due to heat dissipation, but it was again raised as heat dissipation ended soon and inversely calorigenic action or heat production began again over heat dissipation.

This result suggests capsaicin can promote energy consumption by means of both heat dissipation and production.

· Source book: A Kobayashi, T Osaka, Y Nanba, S Inoue, T H Lee, S Kimura, AM J Physiol., 275, R92 (1198)

Test Data

Substrate : Nylon Pantyhose

Recipe

- **ITOFINISH LJ3000** : 50 g/l
- **ITOBINDER AG** : 20 g/l
- **Liquor Ratio** : 30:1, at 40°C for 15 min
- **Dehydrating & Drying** : 100°C for 30 minutes.

	Blank	ITOFINISH LJ3000
An hour later	100	100
3 hours later	100	112
5 hours later	100	117
7 hours later	100	122

(Comparison data if hygroscopic property of blank is 100)