

ITOFINISH LJSYF NEW is newly developed anti-bacteria and moisturizing agent for use with fabrics of synthetic and cellulose nature with durable effects within our standard washing at home.

Having the main component of the product from CHITOSAN (natural source high molecular protein with amino radicals), it exhibits excellent anti-bacteria and moisturizing property on textiles.

## PROPERTIES

- **Appearance** : Pale brownish liquid
- **Main Ingredient** : Chitosan from lobster or crab shells
- **Ionic Character** : Cationic
- **Solubility** : Easily Soluble into water

## APPLICATION

### In Padding:

- **ITOFINISH LJSYF NEW** : 20-30 g/l
- **ITOBINDER U30 NEW** : 20 g/l
- **ITOCATALYST SCS** : 1 g/l
- **ITOSILICONE LJ88** : 10-20g/l (as required for handle)
- **Drying** : 120°C for 1 - 2 min.
- **Curing** : 150°C for 1 min

### In Exhaustion:

- **ITOFINISH LJSYF NEW** : 4%
- **ITOBINDER U30 NEW** : 2%
- **ITOCATALYST SCS** : 0.5%
- **ITOSILICONE LJ88** : 1-2% (as required for handle)
- **Liquor Ratio** : 10 - 30:1, at 40°C for 15 min.
- **Dehydrating and Drying** : 120°C

## CHARACTERISTICS

1. Eco-friendly and safe.
2. Not toxic.
3. Durable effects on cellulose and synthetic fabrics.
4. Recommendable in exhaustion in case of cellulose and nylon in garments or pieces.
5. Against requirement to more durability to washings, the product has special binding agent and the catalyst for binder.
6. Effective against MRSA.
7. Due to European legislation this product is not available for processing within Europe due to being unregistered under the Biocidal Products Regulations

## 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.

**MAGNACOLOURS**<sup>®</sup>  
IMAGINATION INK™



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## TEST DATA

### Test Guide:

Test Piece & Fabric Style	Pick Up %	Drying Temp	Curing	Added (owf) %
Acrylic Jersey	100%	105°C	No Cure	2.0% owf
Nylon Taffeta	40%	105°C	150°C x 1.5 min	0.9% owf
Cotton Knit	80%	105°C	120°C x 3 min	1.6% owf

Note: Anti-bacteria test by hallow method

### Test Results:

Test Piece	Recipe	Hallow Size	Effect Without Washing	10 Times Washing
Acrylic	- LJSYF NEW single - Combined	8m/m 8m/m	Effective Effective	Effective Effective
Nylon	- LJSYF NEW single - Combined	3m/m 3m/m	Effective Effective	Effective Effective
Cotton	- LJSYF NEW single - Combined	8m/m 8m/m	Effective Effective	Effective Effective

### Recipes :

ITOFINISH LJSYF NEW single = with use of ITOFINISH LJSYF NEW : 20 g/l

Combined = ITOFINISH LJSYF NEW20 g/l

ITOBINDER U30 NEW : 20 g/l

ITOCATALYST SCS : 1 g/l

Hallow : Size shows effective in anti-bacterial agent

## TEST DATA

**THE UNIVERSITY of York**

**DEPARTMENT OF BIOLOGY**  
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**Date:** 13/6/00

Please telephone 01904 432918 if any part of this FAX transmission is unreadable

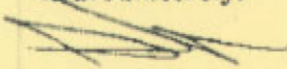
**Message:**

Please find below results for the cotton samples received for testing on the 9/6/00 (I.J3538). The test was carried out according to AATCC method 147-1993 against *S. aureus*. Photos will be send via E-mail as soon as possible.

Sample	Result
UntreatedControl	Negative (growth under / no halo)
Treated 0 Wash	Positive (no growth under / 5mm halo)
Treated 50 Wash	Positive (no growth under / 5mm halo)

If you have any queries regarding these results, please do not hesitate to contact me.

Yours sincerely,

  
Adrian Harrison.

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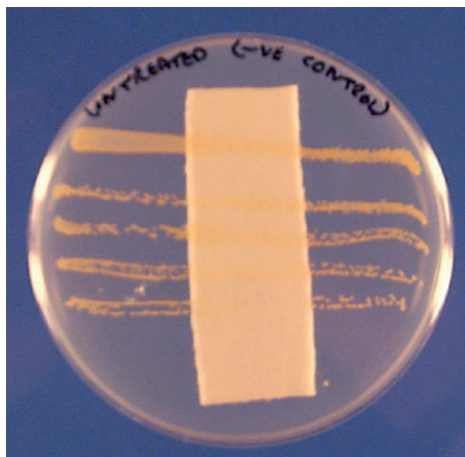
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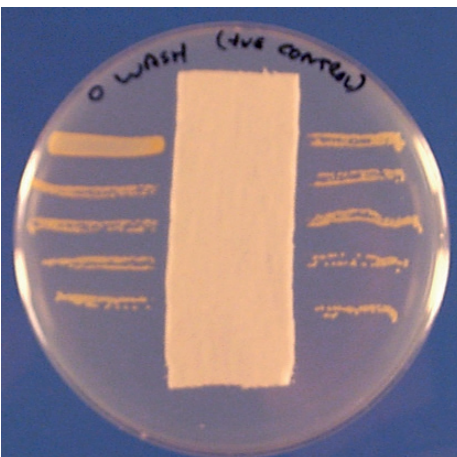


## APPENDIX

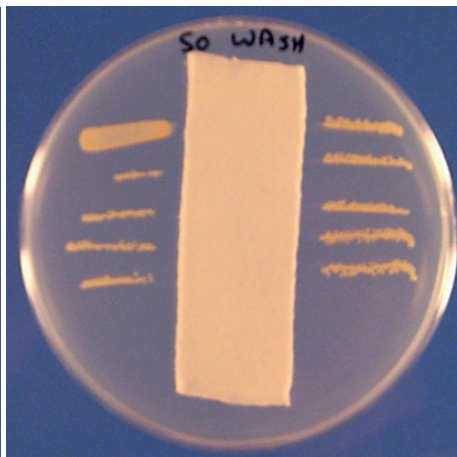
The following series of pictures illustrates the AATCC-147 test plates.



This picture illustrates the growth under the test fabric.



Following test plate illustrates after 0 washes no growth is present.



Following test plate illustrates after 50 washes no growth is present.

Please note the above information is guidance only

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