

ITOFINISH ALO200(C)

ALOE-AND-CHITOSAN FINISHING AGENT



Aloe

Aloe is a sap-rich perennial plant with mucronate green leaves, which grow in the shape of a rosette, and it has spired yellow flowers every spring. The word "Aloe" is derived from Alloeh in the Arabic meaning "Bitter" or "Shining substance".

Properties commonly associated with Aloe Vera

* Skin purification * Skin moisture conservation * Anti-inflammation * UV cut * Anti-bacteria

Chitosan

Chitosan is a polymeric substance produced by deacetylation of chitin that is extracted from cuticles of such arthropods as nippers, or from insects, funguses, etc. Chitosan is composed of D-gluconic acid and N-acetyl-D-gluconic acid.

It is said that chitosan has a lot of potentiality. In medical field, for instance, artificial skin is made from chitin fiber, it is reported that chitosan is effective for injury and tumor cure. Meanwhile, chitosan is used as a moisturizing agent substituted for hyaluronic acid.

PROPERTIES

- **Appearance** : Light yellowish white paste
- **Main Ingredient** : Aloe-chitosan-containing sorbiton fatty acid ester
- **Ionic Character** : Nonionic/Weakly cationic
- **pH** : Weakly Acidic
- **Solubility** : Easily soluble in water

APPLICATION

In Padding:

- **ITOFINISH ALO200(C)** : 30-70 g/l
- **Drying** : 120°C for 1 - 2 min.
- **Curing** : 150°C for 1 min

In Exhaustion:

- **ITOFINISH ALO200(C)** : 3-7 %
- **Liquor Ratio** : 10:1, at 40°C for 15 min.
- **Dehydrating and Drying** : 100°C
- **Curing** : 120°C for 2 - 3 min.

CHARACTERISTICS

1. Moisturising components, aloe and chitosan are included for moisturising skin and hair.
2. With its anti-bacterial effect, it can be used for skin health.
3. It is eco-friendly since aloe and chitosan are used as food or cosmetic ingredients.
4. It's moisturizing and anti-bacterial effects are durable.
5. 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.

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IMAGINATION INK[™]



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TEST DATA

Substrate : Cotton Knitted Fabric

Recipe

- **ITOFINISH ALO200(C)** : 70 g/l
- **Drying** : 120°C for 1 - 2 min.
- **Curing** : 150°C for 1 min.

Moisturising Effect (Relative value of moisturisation of blank specimen as 100)

	After 2 Hours	After 5 Hours
Blank	100	100
ITOFINISH ALO200(C) (Without Laundering)	113	112
ITOFINISH ALO200(C) (After HL10)	108	108

Anti-Bacterial effect (according to SEK's test method)

Bacteria: Staphylococcus aureus A.A.T.C.C 6538P

	Coefficient of Bacteria Reduction	Effect
Blank	0.56	No
ITOFINISH ALO200(C) (Without Laundering)	5.21	Yes
ITOFINISH ALO200(C) (After HL10)	2.18	Yes

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TEST DATA

DEPARTMENT OF BIOLOGY

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

Message :

Please find below results for the fabric samples received for testing on the 28/3/00 (LJ3492). The tests were carried out according to AATCC methods 100-1993 and 147-1993 against *S. aureus*.

AATCC 147-1993

Sample	Result
White Fabric Control	Negative (growth under / no halo)
White Fabric 30 wash	Positive (no growth under / slight halo)

AATCC 100-1993

Sample	Organisms per ml on sample after 24 h
White Fabric Control	4270
White Fabric 30 wash	540

Reduction in number of organisms = 87%

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

Yours sincerely,

Adrian Harrison.

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TEST DATA

Example Test Report

- **Fabric** : 100% nylon
- **Application** : Pad
- **Recipe** : 30g/l ITOFINISH ALO200 (A) or 30g/l ITOFINISH ALO200 (C)
- **Pick-up** : 100%
- **Drying** : 100°C x 2 min
- **Curing** : 120°C x 3 min
- **Test Method** : Antibacterial test using JIS L1902 : 2008 (Staphylococcus Aureus)
- **Washing** : 30 to 50 washes

Sample	Initial Bacteria	Bacteria after 18 hours	Bacteriostatic Activity Value (S)	Antibacterial effect
Control	2.64 x 10 ⁴	2.46 x 10 ⁷	-	-
ITOFINISH ALO200 (C) 30 Wash	1.80 x 10 ⁴	<20	>5.9	Positive
ITOFINISH ALO200 (A) 30 Wash	2.10 x 10 ⁴	<20	>6.0	Positive
ITOFINISH ALO200 (C) 50 Wash	1.20 x 10 ⁴	<20	>5.7	Positive
ITOFINISH ALO200 (A) 50 Wash	1.00 x 10 ⁴	<20	>5.7	Positive

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TEST DATA

Example test report

- **Fabric** : 100% Cotton
- **Application** : vd
- **Recipe** : 70g/l ITOFINISH ALO200 (A) or 70g/l ITOFINISH ALO200 (C)
- **Pick-up** : 100%
- **Drying** : 100°C x 2 min
- **Curing** : 120°C x 3 min
- **Test Method** : Antibacterial test using JIS L1902 : 2008 (Staphylococcus Aureus)
- **Washing** : 30 to 50 washes

Sample	Initial Bacteria	Bacteria after 18 hours	Bacteriostatic Activity Value (S)	Antibacterial effect
Control	3.4×10^4	5.9×10^6	-	-
ITOFINISH ALO200 (C) 30 Wash	3.4×10^4	<20	5.5	Positive
ITOFINISH ALO200 (A) 30 Wash	3.4×10^4	<20	5.5	Positive
ITOFINISH ALO200 (C) 50 Wash	3.4×10^4	<20	5.5	Positive
ITOFINISH ALO200 (A) 50 Wash	3.4×10^4	1×10^2	4.8	Positive

ITOFINISH ALO200 (A) is a anionic grade product similar to ITOFINISH ALO200 (C) which is Cationic

S value : The below information gives approximate guidelines of the relative performance of the S values.

- 4.0 + = 99.99% Reduction in bacteria
- 3.0 = 99.9% Reduction in bacteria
- 2.0 = 99% Reduction in bacteria
- 1.0 = 90% Reduction in bacteria

A result of 1.0 would correspond to a positive test using the AATCC 147 plate method and indicates antibacterial activity.

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