

AVCOSOFT NI-100

CONCENTRATED NONIONIC SOFTENER BASE

AVCOSOFT NI-100 is a nonionic softener base used for finishing cellulosic and synthetic fabrics and their blends.

AVCOSOFT NI-100 is used in the padding process in conjunction with resins, catalysts, optical brighteners, PVA and Poly-acrylates, pigments or as a sole finish.

AVCOSOFT NI-100 is non-yellowing and imparts to the fabric a soft and full hand. Fabrics softened with AVCOSOFT NI-100 can be over printed with pigments with no influence on the fastness properties.

SPECIFICATION:

Appearance	White to light yellowish grain.
Chemical nature	Fatty acid condensation product
Ionicity	Nonionic.
pH (1%)	5-6
Solubility	Emulsifiable in warm water
Alkali, acid, hard water and electrolyte stability	Good
Storage	Stable for at least 12 months.

Properties and uses:

1. Imparts a soft and full handle to all knids of fabrics.
2. Non-yellowing even at elevated temperatures.
3. Compatible with many chemicals such as mild acids and alkalis, peroxide, water hardness and anionic and cationic finishing agents.
4. Highly concentrated softener, saves storage room and handling in the dye-house.

APPLICATION:

Before use, prepare a 10% AVCOSOFT NI-100 emulsion in water according to the following procedure:

Water	- 90
AVCOSOFT NI-100	- <u>10</u>
	100

Technical – Information

1. Should be added to the required quantity of water at 60°C or above 60°C and stirring up for approximately 1 hour until completely dissolved.
2. Stirring must be continued during cooling in order to avoid the formation of a surface skin which may contaminate the final product.
3. Cool down to 30-40°C.
4. Adjust to pH 5-5.5 with acetic acid.
5. Draw out through filter.

Following are some examples of application:

1. Treatment of Cotton or Polyester fabrics and blends.
Pad with 30-60 gr/l AVCOSOFT NI-100 (10%) followed by drying and calendering.
2. Finishing of poly-cotton bed sheeting.
Pad with the following recipe:

AVCOSOFT NI-100 (10%)	30	-	60	gr/l
AVCO-ELASTOGUM 100	5	-	20	gr/l
3. Pigment dyeing of cotton and poly-cotton fabrics.
Pad with the following recipe:

AVCOLOR pigment	X			
AVCO-BINDER D	20	-	120	gr/l
di-ammonium - phosphate	1	-	2	gr/l
AVCOSIL S	5	-	15	gr/l
AVCOSOFT NI-100 (10%)	20	-	80	gr/l
4. Crease resistant finish of woven cotton.

AVCOREZ LFR-CONC	40	-	60	gr/l
Magnesium - chloride	12	-	18	gr/l
AVCOSOFT NI-100 (10%)	20	-	60	gr/l

Padding, drying, curing for 3 minutes at 150°C or 30 seconds at 170°C.
5. Finishing 100% cotton satin white fabrics.
Pad with the following recipe:

AVCOLUX CN - 100	4	-	8	gr/l
AVCOSOFT NI-100 (10%)	20	-	60	gr/l

Padding, drying and hot calendering.
6. Finishing of 65/35 poly-cotton printed with pigments.
Pad with the following recipe:

AVCOSOFT NI-100 (10%)	20	-	60	gr/l
AVCO-ELASTOGUM 100	10	-	15	gr/l