

Technical - Information

AVCO-SOFT 1850

AMINO SILICONE ELASTOMER IN MICRO-EMULSION FORM

AVCO-SOFT 1850 is a micro-emulsion of amino-modified silicone elastomer, used for softening textiles.

AVCO-SOFT 1850 is used for receiving special finishing effects on all kinds of textiles. When there is a need for durable elasticity, softness, lubricity, sew-ability, smoothness and shine finish. AVCO-SOFT 1850 is the best choice.

AVCO-SOFT 1850 can be applied by padding or by exhaustion. The main advantage of the micro-emulsion is its emulsion stability, even under high shear forces, such as in high speed padding machines.

SPECIFICATION:

Appearance	Clear to slightly turbid fluid.
Chemical nature	Poly-aminosiloxane micro emulsion.
pH (as is)	6.5 ± 1
Ionic nature	Nonionic.
Solubility	Miscible with water at any ratio.
Compatibility	<ol style="list-style-type: none"> 1. Good with cationics and nonionics. 2. Compatibility with anionic products should be tested in lab before use. 3. Stable at neutral and acidic conditions.
Storage	Shelf life is at least 6 months.

PROPERTIES & USES:

1. Imparts smooth, soft handle, very good for OE-fabrics.
2. Finishing with AVCO-SOFT 1850 is permanent and stable to repeated washing. No need of any thermal fixation apart of drying.
3. AVCO-SOFT 1850 improves resistance to pilling and abrasion of textile fabrics.
4. AVCO-SOFT 1850 improves hand of fabrics finished with "wash and wear" resins. Can be applied with resins in the same bath.
5. AVCO-SOFT 1850 improves sew-ability of treated fabrics.
6. Improves elastic recovery of knitted goods.

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7. Can be used as is or in combination with other softeners.
8. Excellent suitability for high speed padding application. The rollers of the padding machine can be cleaned very easily without any rubbery residues on the metal surface.
9. The stability of the product in high speed jets depends on machine type.

APPLICATION:

AVCO-SOFT 1850 can be used as a pure finish or as a modifier to other softeners and finishing agents.

1. For application by exhaustion use the following procedure:

- a. Fill water.
- b. Adjust pH to 5.5 by acetic acid.
- c. Add AVCO-SOFT 1850.
- d. Treat at 40°C for 10 - 30 minutes.
- e. Without rinsing, hydro extract.
- f. Dry at 100 – 150°C.

AVCO- SOFT 1850 does not need any catalyst or special curing.

2. For application by padding use the following procedure:

- a. Fill water.
- b. Adjust pH to 5 – 6 with acetic acid (0.5 – 1 g/l).
- c. Add 10 – 30 g/l AVCO-SOFT 1850.
- d. Add other finishing agents (check for compatibility).
- e. Pad, liquor pick-up about 50 – 80% (depend on fabrics).
- f. Dry at 120 – 150°C.

AVCO-SOFT 1850 does not need any catalyst or special curing.

3. Recommended dosage:

- a. Exhaust method: use 2 – 4 %.
- b. Padding method: use 10 – 30 g/l.