

## AVCO-ELASIL 5224

*LOW YELLOWING, MICRO SILICONE ELASTOMER*

AVCO-ELASIL 5224 is an excellent silicone elastomer, 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-ELASIL 5224 is the best choice.

AVCO-ELASIL 5224 is a micro emulsion. The main advantage of the micro-emulsion is its emulsion stability, even under high shear forces, such as in high speed padding machines.

AVCO-ELASIL 5224 is non-yellowing in normal finishing conditions.

### *SPECIFICATION:*

<b>Appearance</b>	Clear, colourless liquid
<b>Chemical nature</b>	Micro emulsion of modified silicone
<b>pH (as is)</b>	5.5 ± 1
<b>Ionic nature</b>	Cationic
<b>Solubility</b>	Miscible with water at any ratio.
<b>Compatibility</b>	a. Good with cationics and nonionics b. Compatibility with anionic products should be tested in lab before use. c. Stable at neutral and acidic conditions
<b>Storage</b>	Shelf life is at least 6 months if properly stored. Do not store in direct sun. Sensitive with frost

### *PROPERTIES & USES:*

1. Imparts smooth, soft handle, very good for synthetic fabrics.
2. AVCO-ELASIL 5224 improves resistance to pilling and abrasion of textile fabrics.
3. AVCO-ELASIL 5224 improves sew-ability of treated fabrics.
4. AVCO-ELASIL 5224 improves elastic recovery of knitted goods.
5. AVCO-ELASIL 5224 can be used alone or in combination with organic softeners.
6. AVCO-ELASIL 5224 can be used together with OBA in finishing bath.

**APPLICATION:**

AVCO-ELASIL 5224 is applied by padding technique processes on finishing machines, and exhaust processes on garment dyeing machines .

The applicaton on high speed Jet dyeing machine and with highly shearing pumps should be pretest.

**1. For application by exhaustion use the following procedure:**

- a. Add water
- b. Adjust pH to 5 – 5.5 with acetic acid.
- c. Add AVCO-ELASIL 5224.
- d. Treat for 20 minutes at 40°C

**2. For application by padding use the following procedure:**

- a. Add water
- b. Adjust pH to 5-6 with acetic acid (0.2- 0.5 g/l)
- c. Add AVCO-ELASIL 5224.
- d. Add other finishing agents (check for compatibility)
- e. Pad, and dry.

AVCO-ELASIL 5224 does not need any catalyst for special curing.

**3. Combination with organic softeners:**

AVCO-ELASIL 5224 can improve very much the handle and sewability of fabrics treated with organic softeners.

It can be used with nonionic and with cationic softeners as well.

For finishing high quality bed sheeting and upholstery fabrics use:

AVCO-ELASIL 5224	15 – 20 g/l
AVCO-SOFT CSNY	30 – 50 g/l