

AVCO-ELASTOGUM 230 NEW

HYDROPHILIC MACRO SILICONE SOFTENER

AVCO-ELASTOGUM 230 NEW is a nonionic macro emulsion of a self dispersing polyether-amino-functional silicone fluid.
AVCO-ELASTOGUM 230 NEW considerably improves the wear comfort of textiles.

SPECIFICATION:

Appearance	Milky white liquid
Chemical nature	Emulsion of a self dispersing polyether-amino-functional silicone fluid
Ionic character	Nonionic
pH of 5% solution	approx. 5
Solubility	Miscible with water at any proportion
Stability to hard water	Good
Storage	Stable for at least 1 year if properly stored. do not store in direct sun. Sensitive to frost

PROPERTIES & USES:

1. The hydrophilic properties are the results of the special orientation of AVCO-ELASTOGUM 230 NEW on the fibre surface. This allows unrestricted moisture transport within the fabric, together with the excellent hand that is generally associated with high quality silicone textile softeners. Due to the surface oriented silk-like and supple softness effect it is particularly suitable for light woven goods where hydrophilic properties are of importance.
2. AVCO-ELASTOGUM 230 NEW bonds more strongly to the fibre surface than glycol-and quat-functional polysiloxanes. This lead to the better exhaustibility and wash resistance.
3. AVCO-ELASTOGUM 230 NEW has limited compatibility with anionic auxiliaries such as optical brighteners. Compatibility tests should be carried out before it is used together with other chemicals.
4. AVCO-ELASTOGUM 230 NEW is used for hydrophilic treatment of fibres and textiles of all kinds. On hydrophilic substrates such as cellulose, the hydrophilic properties are not usually affected, whereas hydrophobic substrates such as polyesters usually experience a clear improvement in wetting properties.
5. AVCO-ELASTOGUM 230 NEW provides woven goods and knitwear with a silk-like soft, full bodied, bulky, supple and smooth hand.

Technical – Information

6. When applied under normal conditions AVCO-ELASTOGUM 230 NEW only has a slight effect on whiteness. It does not generally affect on fastness of colored goods.
7. AVCO-ELASTOGUM 230 NEW is used for padding, in the exhaust process and can also be used on their own or together with organic softeners, polyethylene waxes and other finishing agents. The compatibility should be tested on a case by case basis.

APPLICATION:

1) Pad method

10 - 30 g/l AVCO-ELASTOGUM 230 NEW are recommended.

Adjust pH 5-5.5 with AVCOCID PHS

pad, liquor pick-up about 50-60%

dry at about 130C – 160C

2) Exhaust method

1-3%, relative to the weight of goods, are adequate and the treatment should be carried out at 40-50°C for 20-30 minutes, the pH of liquors being adjusted to 5-5.5.

Storage stability

AVCO-ELASTOGUM 230 NEW has a shelf life of at least 6 months if stored in originally sealed containers at 35°C and protected against direct sun. Expired date is after 6 months from the manufacturing date is shown on the product label

If stored open, in partially empty containers or exposed to direct sunlight (with water condensation on the container surface) ,an elevated concentration may occur at the surface, with the formation of a viscous milky-to transparent creamy gel.

Such creaming is not a sign of emulsion instability, but its high viscosity may cause problems during operation. Therefore, emulsions showing signs of creaming should be agitated before use to assure uniform consistency.

If necessary extremely viscous, poorly dispersed gel particles are removed by filtering before using.

Storage beyond the expired date does not necessarily mean that the product is no longer usable. In this case however, the product should be thoroughly agitated and the properties required for the intended use must be checked for quality assurance reasons.