

RESIL C803

Textile finishing

Description RESIL C803 is a medium to low viscosity diamino functionalized polydimethyl siloxane, specially developed for formulation to emulsions for textile softening and textile resin plasticising.

Applications RESIL C803 is designed for use as a base fluid for formulation of amino silicone emulsions, specifically to be used as textile softeners and lubricants. In application to textiles the product typically yields:

- Smooth soft hand,
- Good drape characteristics,
- Low yellowing,
- Increased fabric elasticity and crease recovery,
- Improved fabric tensile and tear strength.

Typical end uses include cellulosic and man-made fibres on woven, knitted and non-woven fabric and as a lubricant in raising and sueding.

Characteristics

• Appearance.....	clear to slight haze free flowing
• Odour.....	slight amine odour
• Viscosity at 25°C , mPa/s, approx	300
• Flash point, (°C)	104
• Active content, (%).....	100
• Amine content, (ppm).....	4200
• Amine content, (%).....	0.33

Typical values, not specification properties.

Formulation and process

• RESIL C803	20%
• Acetic acid.....	0.32%-0.38%
• Alcohol tridencyl C ₁₃ (EO) ₆	10%
• KOH, 1N	1.74%
• Deionized water	to 100%

Process

- Load water, acetic acid, surfactants and KOH, stir well,
- Stir during 30min,
- Add slowly the oil during approx. 30mins with stirring,
- Stir during 1hour,
- Filtration.

Packaging RESIL C803 is available in 200kg plastics drums on pallet of 800kg.

Storage and shelf life When stored in its original unopened packaging at a temperature 2°C~30°C, RESIL C803 may be stored for up to 12 months from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging. Past this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety Consult the Safety Data Sheet (MSDS) of RESIL C803.

Limitations RESIL C803 products are neither tested nor represented as suitable for medical or pharmaceutical uses.