

STARSOFT P-1023

Product Description

StarSoft P-1023 is a self-dispersion linear copolymer that provides excellent shear stability & non oil-spots.

StarSoft P-1023 plays a role of stabilizer that could act an emulsifier to improve stability of other aminosilicone emulsion.

StarSoft P-1023 provides excellent smoothness & fullness to the most of fibers & fabrics, especially to synthetics & protein.

StarSoft P-1023 does not contain any emulsifiers that would cause color migration & color fastness.

StarSoft P-1023 provides extremely less yellowing and does not incur color change.

Features and Advantages

StarSoft P-1023 is equally effective on synthetics and synthetic/natural blends.

- Linear Copolymer Architecture
- High MW Polymer
- Hindered Amine Functionality
- Combines hydrophilic and silicone moieties
- Low viscosity
- Provide effective & less dosage at 2-5g/l in the bath, as received. It may provide a high level of natural softness to synthetics and their blends with natural fibers
- Impart properties similar to those of reactive elastomeric finishes, such as durability and resistance
- Resulting in Low yellowing
- Good stability under most finishing conditions, including jet/overflow
- May be co-applied with crease (durable press) resist resins, their catalysts and optionally OBA's.
- Self-dispersible, no need for emulsifiers hence lower cost for formulators and mills
- May be blended in directly into the textile finishing bath with minimal agitation
- Easy to handle

It is assured that users of our products will themselves determine the suitability of these products for their own particular purpose, and it is stressed that the information given herein are suggestions for user's guidance only, and are not intended as recommendations, neither are any of the statements made to be construed as recommendations for the infringement of any patent.

Typical Properties

Appearance	Clear to slightly hazy brownish fluid
Viscosity at 25°C, cSt	<10,000 cSt
Solid (wt %)	~65%
Specific Gravity, 25/25°C	1.046 g/L
Amine Content, %	0.12
Preferred Diluent	Water

Applications

StarSoft P-1023 is intended for use in textile finishing of all synthetic based fabrics or their blends with natural fibres. Based on our experience with similar molecules, we believe that StarSoft P-1023 should provide good lubricity and hand-feel during polyester fleece manufacture.

It is recommended to prepare the textile finishing bath with all the other ingredients to their final concentration at a pH of 4.5-6 and then add StarSoft P-1023. StarSoft P-1023 is stable in the presence of most textile auxiliaries, such as crease (durable press) resist resins, their catalysts, optical brightening agents, wax emulsions, non-ionics, cationics, or enzymes.

Even though StarSoft P-1023 is one of the most stable silicone finishes in the market, it is best to use soft water for its dilutions. If this is unavailable, it is prudent to test the complete bath for stability before applying it in production.

As already mentioned, StarSoft P-1023 should be used at 2-5g/lit. higher levels are not necessarily better and in fact, in certain cases, may be performance detrimental.

Dilutions of StarSoft P-1023 are stable for several hours. If prolonged storage is considered, a biocide should be added to retain sterility. There are no specific drying/curing conditions needed for StarSoft P-1023, these are dictated by the other ingredients present in the bath.

Storage and Handling

To ensure that the product quality is maintained, please check expired date and try to use up before expired date. During storage, the container should be tightly sealed when not in use. Store at normal room temperature, and prevent prolonged exposure to extreme heat or freezing.