



TECHNICAL BULLETIN

TAYCHEM SILSOFT 150E

Hydrophilic Silicone Softener Emulsion

Description:

TayChem Silsoft 150E is a premier, organo-functional, modified hydrophilic silicone softener. It is an excellent, hydrophilic silicone softener for a wide range of fabrics and other substrates, such as 100% cotton, poly/cotton blends, rayon, acrylic, and wool. TayChem Silsoft 150E is an efficient softener for nonwovens and toweling.

Applications:

TayChem Silsoft 150E is particularly suitable as a hydrophilic softener for impregnation of fibers and textiles when good wetting properties are desired. Maintaining the moisture absorption of the treated fiber, it contributes to a high-comfort factor of the textile. TayChem Silsoft 150E imparts a soft, luxurious hand to woven and knitted fabrics and is non-yellowing. It also improves the wash-and-wear properties, sewability, and tear strength and reduces abrasion loss. TayChem Silsoft 150E has good durability up to ten (10) home laundries.

TayChem Silsoft 150E has very little effect on the degree of white when usual application conditions are adhered to. As a rule, no adverse effect on the shade or colorfastness properties of colored goods is observed.

Processing:

TayChem Silsoft 150E can be applied either by padding or by the exhaust method.

5 to 30 g/l of TayChem Silsoft 150E are recommended for the pad method. For the exhaust method, 1% to 3%, relative to the weight-of-goods, is adequate and the treatment should be carried out at 40°C to 50°C for fifteen to twenty minutes. The pH of the liquor should not exceed 5.0. It may need to be adjusted with acetic acid.

TayChem Silsoft 150E can be applied either alone or together with resins and other finishing agents.

TayChem Silsoft 150E: When applied to nonwovens, such as thermal-bonded polyester or spun-bonded polypropylene at a 1.0% actives level, the substrate is imparted with a soft, silky hand. This product improves wetting of hydrophobic surfaces in the Textile Industry.

Typical Properties:

Property	Characteristic
Appearance	Clear To Slightly Hazy Emulsion
Solids Content (%); Microwave Oven	Ca. 30
pH Value	Ca. 5.0
Dispersibility	Dispersible In Water
Note: These figures are intended as a guide and should not be used in preparing specifications.	



Typical Recipes:

Woven And Knitted Materials From Synthetic Fibers, 100% Cotton And Toweling	Single Jersey Or Interlock Cotton Fabrics [Exhaust Method]
10-30 g/l TayChem Silsoft 150E	0.2 ml/l Acetic Acid 56%
Pad, Liquor Pickup About 80%	2-4 g/l TayChem Silsoft 150E
Dry At 120°C To 150°C	10-30 Minutes At 30°C To 40°C
	Without Rinsing, Hydroextract
	Dry At 100°C To 150°C

Storage Stability:

TayChem Silsoft 150E has a shelf life of at least six {6} months if stored in its original, sealed container at 25°C or 70°F. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application.

Safety Instructions:

Comprehensive instructions are given in the corresponding Material Safety Data Sheet. This information is available upon request from TayChem Industries, Ltd.

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