

# SOFTYCON SBT-45 | SOFTYCON SBT-12

Silicone softener for polyester and its blends





# SOFTYCON SBT-45

Concentrated silicone softener for polyester and its blends

# SOFTYCON SBT-12

(diluted formulation of SOFTYCON SBT-45)  
Silicone softener for polyester and its blends

## Features and Benefits

- Silicone softener based on block copolymer technology (AB)<sub>n</sub>
- Can be used on all type of fibres ➔ high flexibility due to universally applicable product
- Particularly recommended for polyester and its blends with cellulose ➔ due to the structure of the product, nearly non influence on the general fastness properties
- The product covers the fiber ➔ a soft, voluminous, silky handle is given to the textile
- Reduction of friction due to film formation on the fiber surface ➔ improvement of rub fastnesses
- Easy to dilute in water without adding an additional emulsifying agent ➔ no negative influence on the wet fastness level of the dyeings
- No yellowing tendency and the product can be combined with optical brighteners ➔ suitable for white goods
- High resistance to sublimation ➔ no deterioration of fastness of the treated textile and reduction of machine contamination
- High resistance to boiling temperature, alkali and electrolytes and besides this high shear stability ➔ increased process reliability by reducing interactions and therefore the possibility of over dyeing
- Overall applicable in exhaust and continuous processes ➔ flexible production planning possible
- Hydrophilic ➔ the textile gets a pleasantly wear comfort
- GOTS, bluesign and ZDHC listed ➔ fulfillment of market requirements for sustainable, ethical and fair textiles

**Composition**  
Modified silicone

**Ionogenity**  
Non-ionic / weakly cationic

## Fields of application

SOFTYCON SBT-45 and SOFTYCON SBT-12 are suitable for all types of textiles, especially for PES and PES/CO blends.

SOFTYCON SBT-45 and SOFTYCON SBT-12 offer a soft handle with a voluminous effect. A silky and gliding handle is achieved on PES fabrics.

SOFTYCON SBT-45 and SOFTYCON SBT-12 increase the wearing comfort of sportswear by improving the moisture management.

SOFTYCON SBT-45 and SOFTYCON SBT-12 can be used in exhaust and continuous processes. Due to their high shear stability, they are well suited for jet dyeing machines.

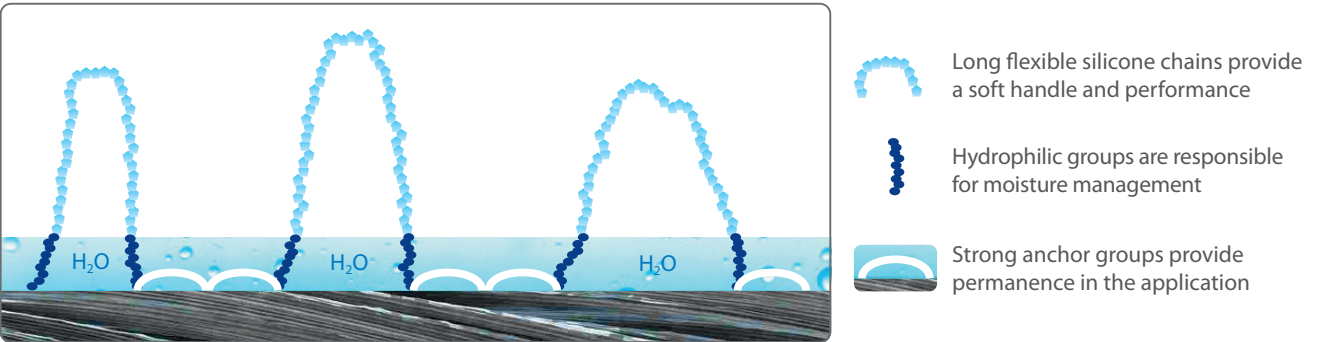
## Application quantities

**SOFTYCON SBT-45** and **SOFTYCON SBT-12** are pre-diluted with one to two times the amount of cold water and then added to the application liquor.

**Application quantity**

Discontinuous	0.5 – 2.0 pH 4.5 – 5.5	%	<b>SOFTYCON SBT-45</b> acetic acid 40 °C, 20 min dry	1.5 – 6.0 pH 4.5 – 5.5	%	<b>SOFTYCON SBT-12</b> acetic acid 40 °C, 20 min dry
Continuous	2.0 – 20.0 pH 4.5 – 5.5	g/l	<b>SOFTYCON SBT-45</b> acetic acid dry	6.0 – 60.0 pH 4.5 – 5.5	g/l	<b>SOFTYCON SBT-12</b> acetic acid dry

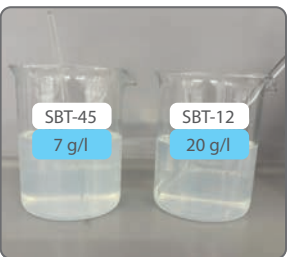
## Soft handle and performance



## Stability in alkaline liquors



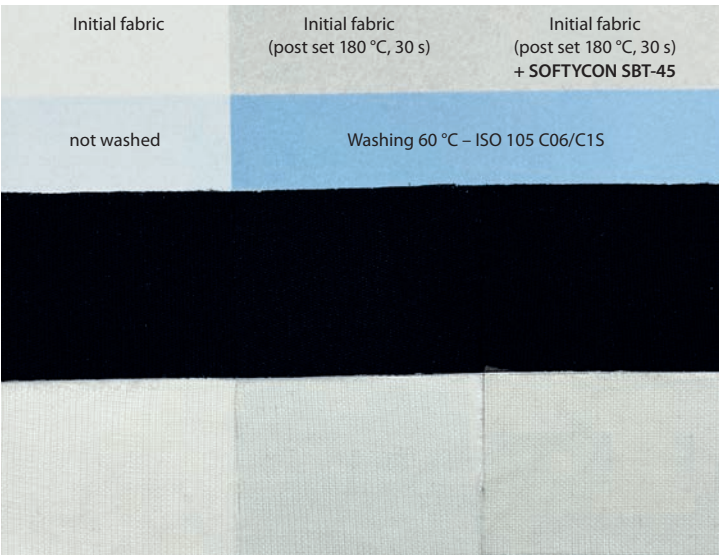
pH 10.6 – directly



pH 10.6 – after 8 h

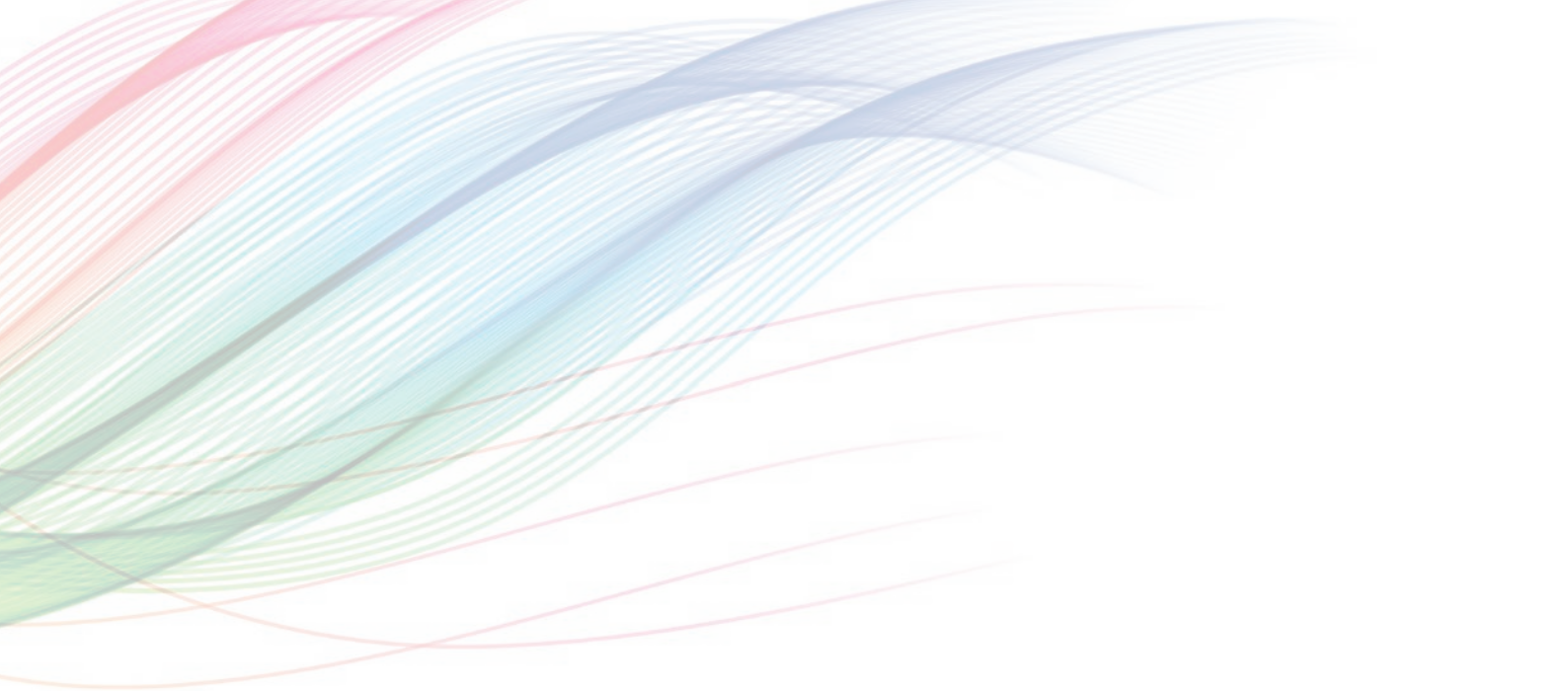
## Influence on fastnesses to normal use

Wash fastness 60 °C – ISO 105 C06/C15



Dyeing

PES  
accompany  
fabric



### Storage

The product may solidify if stored below 0 °C for longer periods. After thawing and carefully stirring, the product can be used again without restriction. If stored properly in closed original containers, the product can be stored for at least 6 months.

### Further information about the safe use of the product can be found on our Safety Data Sheet!

The recommendations and information about our products given here in words and writing are based on extensive research work and represent our current experience in the textile finishing business. They are non-binding – including with regard to the intellectual property rights of third parties and foreign laws – and do not exempt users from testing the product and process themselves for suitability for their purposes. In particular we do not accept any liability for any purposes not expressly mentioned by us in writing. We reserve the right to make technical changes in the course of new product development. In the event of damage please refer to our General Terms and Conditions of Sales and Delivery, Item 7.