



Silicone Softeners for Finishing and Converting

For wearable comfort, textiles need a soft, supple hand. Not only that, but towels, for example, need to be extremely absorbent. You will find the right products to suit both requirements at StarChem. For classic softeners, choose from a comprehensive range of highly functional amino fluids, microemulsions and macroemulsions. The StarSoft™ product line provides a particularly effective combination of soft hand and hydrophilic properties. Our StarSoft™ products offer you all the options provided by traditional amino emulsions – and in concentrated form.

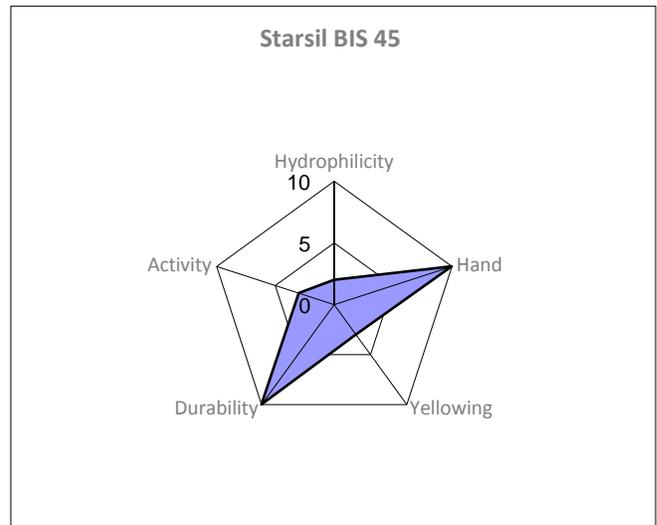
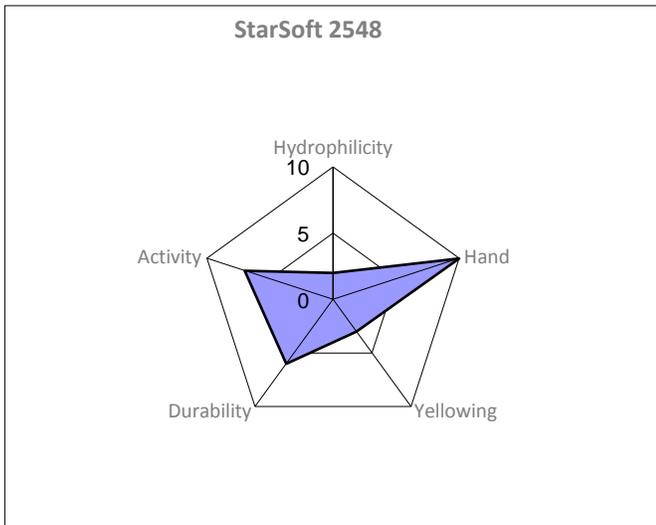
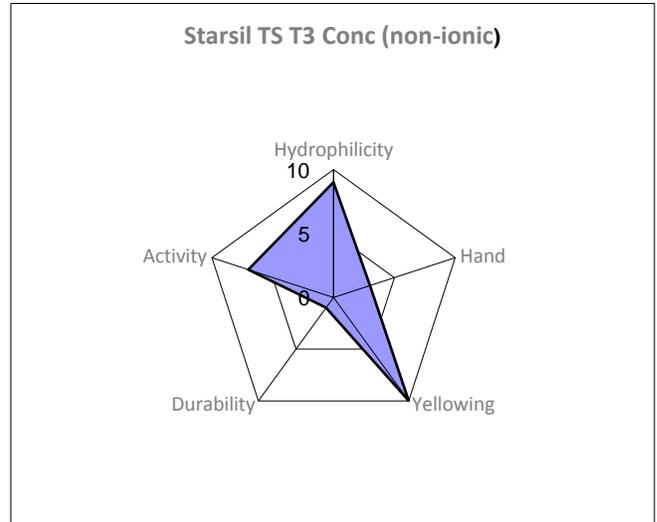
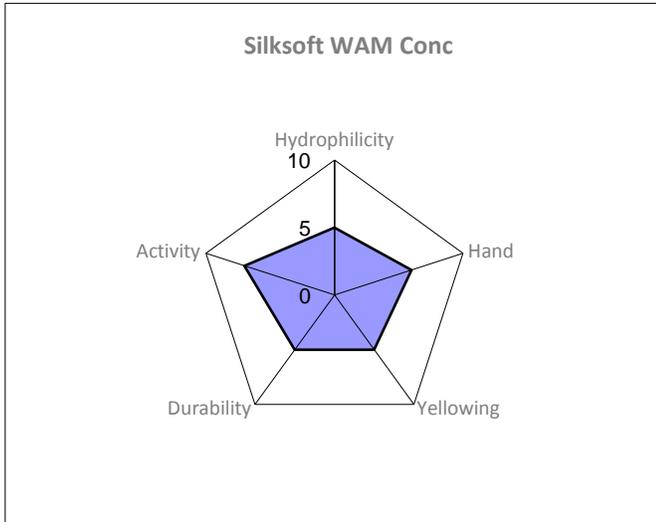


Silicone Softener Chemistry Groups

Hydroxysilicones	Silicone Hydrides	Akyleneoxide/Epoxy Silicones	Aminosilicones
$\begin{array}{c} \text{Me} \\ \\ \text{HO}-\text{Si}-\text{O} \\ \\ \text{Me} \end{array} - \left[\begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \end{array} \right]_n - \begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{OH} \\ \\ \text{Me} \end{array}$	$\begin{array}{c} \text{Me} \\ \\ \text{Me}-\text{Si}-\text{O} \\ \\ \text{Me} \end{array} - \left[\begin{array}{c} \text{H} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \end{array} \right]_n - \begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{Me} \\ \\ \text{Me} \end{array}$	$\begin{array}{c} \text{Me} \\ \\ \text{Me}-\text{Si}-\text{O} \\ \\ \text{Me} \end{array} - \left[\begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \end{array} \right]_m - \left[\begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \\ \\ (\text{CH}_2)_3 \\ \\ \text{O} \\ \\ (\text{EO})_x \\ \\ (\text{PO})_y \\ \\ \text{R} \end{array} \right]_n - \begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{Me} \\ \\ \text{Me} \end{array}$	$\begin{array}{c} \text{Me} \\ \\ \text{R}'-\text{Si}-\text{O} \\ \\ \text{Me} \end{array} - \left[\begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \end{array} \right]_m - \left[\begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{O} \\ \\ \text{Me} \\ \\ (\text{CH}_2)_3 \\ \\ \text{NHR} \end{array} \right]_n - \begin{array}{c} \text{Me} \\ \\ \text{Si}-\text{R}' \\ \\ \text{Me} \end{array}$ <p>R = H, C₆H₁₁, CH₂CH₂NH₂ R' = Me, OH, OMe</p>
StarChem Products			
StarSoft GA	StarPel 366 StarChem 2543	StarSoft HS 20 StarSoft HS 40 Reactosil RWS	StarSoft WAM StarSoft 2548 StarSoft BIS 45 StarSoft TS-T3
Performance Attributes			
Lustrous effects Finish for denim Print softener Elastomeric finish	Water repellent Average hand Crosslinking for durability	Wetting agent Good for soil release Good durability Elastomeric finish	Customize hand Hydrophilic/hydrophobic Durable Wide range of application



Hand : Yellowing : Hyrophilicity : Activity : Durability



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The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written, or by way of production evaluations), including any suggested formulations and recommendations is beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by StarChem. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All