

# COMFORTSIL FLD 21653

<b>Description</b>	<b>COMFORTSIL FLD 21653</b> is a high viscosity amino functionalized polydimethylsiloxane, based on our patented HALS (Hindered Amine Light Stabilizing) technology.														
<b>Examples of applications</b>	<p><b>COMFORTSIL FLD 21653</b> has been developed to be blended with COMFORTSIL FLD HYDROSOFT for the formulation of emulsions in order to increase the softness without significant loss in hydrophilicity.</p> <p>The application onto textile surfaces imparts the following properties:</p> <ul style="list-style-type: none"> <li>• Non-yellowing even at high temperatures.</li> <li>• Good compromise softness / hydrophilicity.</li> </ul>														
<b>Key benefits</b>	<p><b>COMFORTSIL FLD 21653</b> is particularly recommended to be used as a blend with our COMFORTSIL FLD HYDROSOFT, typically in ratio 50:50 or 40:60, in order to get macro or micro-emulsions imparting to treated fabrics high hydrophilic properties and full soft hand.</p> <p>When applied to textiles in combination with COMFORTSIL FLD HYDROSOFT, <b>COMFORTSIL FLD 21653</b> imparts properties of a good compromise between softness and hydrophilicity, whilst remaining non-yellowing due to the presence of HALS groups.</p> <p>Both products are perfectly compatible and easy to blend. Formulation of those blends into micro or macro-emulsion will typically be made using C13 [EO]6 alcohol ethoxylated surfactants. The compromise between hydrophilicity and softness can be adjusted by changing the ratio 21653/HYDROSOFT in the formulation, 21653 bringing more softness and HYDROSOFT more hydrophilicity.</p>														
<b>Typical properties</b>	<table border="1"> <tr> <td><b>Appearance</b></td> <td>Clear to slight haze viscous liquid</td> </tr> <tr> <td><b>Colour</b></td> <td>Colourless to very pale yellow</td> </tr> <tr> <td><b>Viscosity (at 25°C, cP, approx.)</b></td> <td>25.000</td> </tr> <tr> <td><b>Specific gravity (at 25°C, approx.)</b></td> <td>0.973</td> </tr> <tr> <td><b>Amine content (ppm N, approx.)</b></td> <td>1100</td> </tr> <tr> <td><b>Flash point (°C, approx.)</b></td> <td>104</td> </tr> <tr> <td><b>Refractive Index (at 25°C approx.)</b></td> <td>1.408</td> </tr> </table> <p>Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.</p>	<b>Appearance</b>	Clear to slight haze viscous liquid	<b>Colour</b>	Colourless to very pale yellow	<b>Viscosity (at 25°C, cP, approx.)</b>	25.000	<b>Specific gravity (at 25°C, approx.)</b>	0.973	<b>Amine content (ppm N, approx.)</b>	1100	<b>Flash point (°C, approx.)</b>	104	<b>Refractive Index (at 25°C approx.)</b>	1.408
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<b>Instruction of use</b>	Please consult your local ELKEM SILICONES sales office.														
<b>Regulation</b>	Please consult your local ELKEM SILICONES sales office.														
<b>Limitations</b>	Please consult your local ELKEM SILICONES sales office.														
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• COMFORTSIL FLD 21653 E4 is available in                             <ul style="list-style-type: none"> <li>○ Drum of 200 KG (441 LB)</li> </ul> </li> </ul>														
<b>Storage and shelf life</b>	<p>When stored in its original packaging:</p> <p>COMFORTSIL FLD 21653 E4 may be stored at temperatures between 2°C / 36°F and 40°C / 104°F for up to 24 months from its date of manufacturing.</p> <p>Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.</p>														
<b>Safety</b>	Please consult the Safety Data Sheet of: COMFORTSIL FLD 21653 E4														

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**Warning to the users**

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ELKEM SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and ELKEM SILICONES is at their disposal to supply any additional information.