

# CAF 730 MF

<b>Description</b>	<p><b>CAF 730 MF</b> is a one component, thixotropic silicone elastomer, which cures at room temperature simply on contact with air humidity. It is a product that is :</p> <ul style="list-style-type: none"> <li>• Non flowing.</li> <li>• High extrusion.</li> <li>• Multi-purpose.</li> <li>• Neutral, MEKO (Methyl Ethyl Ketoxime) FREE.</li> </ul>
<b>Examples of applications</b>	<p><b>CAF 730 MF</b> is particularly suited to bonding, protection and maintenance applications. It is recommended for :</p> <ul style="list-style-type: none"> <li>• Bonding/sealing in the aeronautics industry.</li> <li>• Elastic bonding or protection of electronic components.</li> <li>• Flexible bonding/bonding between metal and/or plastic components.</li> <li>• Repair/servicing in industry and transport applications.</li> </ul>
<b>Key benefits</b>	<ul style="list-style-type: none"> <li>• Neutral system, solvent free and MEKO free.</li> <li>• Non-corrosive.</li> <li>• Low odour.</li> <li>• Excellent thermal ageing.</li> <li>• Good dielectric properties.</li> </ul>

**Typical properties**

**1. Processing / curing**

**CAF 730 MF** is particularly easy to process since the product is delivered ready to use. It can be applied either manually or using robotized application equipment.

**CAF 730 MF** is applied to one of the two surfaces and assembly must be carried out before the product has formed a skin. It is recommended to apply **CAF 730 MF** to clean and dry surfaces.

**CAF 730 MF** starts to cure as soon as the product is brought into contact with atmospheric humidity.

<b>Skin formation time</b> (At 23°C, 50% RH, minutes, approx.)	10
<b>Cured thickness after 24 h</b> (At 23°C, 50% RH, mm, approx.)	4.9

The cure rate increases with temperature and hygrometry.

**2. Characteristics before curing**

<i>Properties</i>	<b>CAF 730 MF</b>
<b>Aspect</b>	Non flowing paste
<b>Cure type</b>	Oximic (MEKO free)
<b>Colour</b>	White
<b>Extrusion</b> (3mm/3bars)	>100
<b>Specific gravity</b> (g/cm <sup>3</sup> , approx.)	1.02

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### 3. Properties after curing

Mechanical properties after 7 days

<i>Properties</i>	<b>CAF 730 MF</b>
<b>Hardness Shore A</b> ( <i>approx.</i> )	24
<b>Modulus at 100% elongation</b> ( <i>MPa, approx.</i> )	0,5
<b>Tensile strength</b> ( <i>MPa, approx.</i> )	2.0
<b>Elongation</b> ( <i>%, approx.</i> )	500
<b>Tear strength</b> ( <i>kN/m, approx.</i> )	5.0

### 4. Thermal Properties

<i>Properties</i>	<b>Temperature</b>
<b>Temperature limit for use in continuous operating</b> ( <i>on 2 mm –thick film, 1000 h</i> )	- 55°C to + 200°C
<b>Maximum peak temperature recommended in use</b> ( <i>on 2 mm-thick film, 72 h</i> )	+ 225°C

*N.B.: these temperatures values are not absolute limits but the range within which the initial properties are not reduced by more than 50%.*

### 5. Adhesion properties

Lap shear test (1 mm-thick gasket, after curing 14 days at 23°C, 50% RH)

<i>Properties</i>	<b>CAF 730 MF</b>
<i>AG3 aluminum specimen with BLUESIL Primer 820 Lap shear strength, MPa, approx.</i>	1.0 Cohesive failure
<i>AG3 aluminum specimen primerless, Lap shear strength, MPa, approx.</i>	0.4 Adhesive Failure

### 6. Dielectrical properties

<i>Properties</i>	<b>CAF 730 MF</b>
<b>Dielectric strength</b> <i>kV/mm (approx.)</i>	19
<b>Dielectric constant at 1MHz</b> ( <i>approx.</i> )	2.9
<b>Dielectric dissipation factor at 1MHz</b> ( <i>approx.</i> )	3 x10 <sup>-3</sup>
<b>Volume resistivity</b> ( <i>Ohm/cm, approx.</i> )	5 x10 <sup>15</sup>

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Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

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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>	Please consult your local ELKEM SILICONES sales office.
<b>Storage and shelf life</b>	When stored in its original packaging: CAF 730 MF may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 18 months from its date of manufacturing. 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.
<b>Safety</b>	Please consult the Safety Data Sheet of: CAF 730 MF

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