

CAF 730 MF

Description	<p>CAF 730 MF 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"> • Non flowing. • High extrusion. • Multi-purpose. • Neutral, MEKO (Methyl Ethyl Ketoxime) FREE.
Examples of applications	<p>CAF 730 MF is particularly suited to bonding, protection and maintenance applications. It is recommended for :</p> <ul style="list-style-type: none"> • Bonding/sealing in the aeronautics industry. • Elastic bonding or protection of electronic components. • Flexible bonding/bonding between metal and/or plastic components. • Repair/servicing in industry and transport applications.
Key benefits	<ul style="list-style-type: none"> • Neutral system, solvent free and MEKO free. • Non-corrosive. • Low odour. • Excellent thermal ageing. • Good dielectric properties.

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.

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

The cure rate increases with temperature and hygrometry.

2. Characteristics before curing

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

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3. Properties after curing

Mechanical properties after 7 days

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

4. Thermal Properties

<i>Properties</i>	Temperature
Temperature limit for use in continuous operating (<i>on 2 mm –thick film, 1000 h</i>)	- 55°C to + 200°C
Maximum peak temperature recommended in use (<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>	CAF 730 MF
<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>	CAF 730 MF
Dielectric strength kV/mm (<i>approx.</i>)	19
Dielectric constant at 1MHz (<i>approx.</i>)	2.9
Dielectric dissipation factor at 1MHz (<i>approx.</i>)	3 x10 ⁻³
Volume resistivity (<i>Ohm/cm, approx.</i>)	5 x10 ¹⁵

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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Instruction of use	Please consult your local ELKEM SILICONES sales office.
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none">• CAF 730 MF is available in<ul style="list-style-type: none">○ Carton of 25 PC○ Piece of 1 PC
Storage and shelf life	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.
Safety	Please consult the Safety Data Sheet of: CAF 730 MF

Visit our website www.elkem.com/silicones/

Warning to the users

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