

**Sealing & Bonding****Provisory Technical Datasheet – March 2022****CAF 730 MF****Description**

**CAF 730MF** is a one component, thixotropic silicone elastomer, which cures at room temperature simply on contact with air humidity. It is a product that is :

- Non flowing
- High extrusion
- Multi-purpose
- Neutral, MEKO (Methyl Ethyl Ketoxime) FREE

**Examples of applications**

**CAF 730MF** is particularly suited to bonding, protection and maintenance applications. It is recommended for :

- 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

**Advantages**

- Neutral system, solvent free and MEKO free
- Non-corrosive
- Low odour
- Excellent thermal ageing
- Good dielectric properties

**Characteristics****1. Processing / curing**

**CAF 730MF** 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 730MF** 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 730MF** to clean and dry surfaces.

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

Skin formation time \*, min.....10

Cured thickness after 24 h\*, mm .....4.9

\*Temperature 23°C, relative humidity 50%

The cure rate increases with temperature and hygrometry.

## CAF 730 MF

### 2. Characteristics before curing

Properties	CAF 730 MF
Aspect	Non flowing paste
Cure type	Oximic (MEKO free)
Colour	White
Extrusion (3mm/3bars)	>100
Specific gravity (g/cm <sup>3</sup> )	1,02

### 3. Properties after curing

Mechanical properties after 7 days

Properties	CAF 730 MF
Hardness Shore A (approx.)	24
Modulus at 100% elongation, (MPa, approx.)	0,5
Tensile strength (MPa, approx.)	2,0
Elongation ( %, approx.)	500

Please note: These figures are only intended as a guide and should not be used in preparing specifications.

### 4. Thermal Properties

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

Properties	CAF 730 MF
AG3 aluminum specimen with BLUESIL Primer820 Lap shear strength, MPa	1,0MPa Cohesive failure

**CAF 730 MF****6. Dielectrical properties**

<i>Properties</i>	<b>CAF 730 MF</b>
Dielectric strength, kV/mm, approx	19
Dielectric constant at 1MHz, approx	2.9
Dielectric dissipation factor at 1MHz, approx	$3 \times 10^{-3}$
Volume resistivity, Ohm/cm, approx	$5 \times 10^{15}$

**Packaging**

- 100 g tubes on pallets of 1600 units.
- 310 ml cartridges on pallets of 1200 units.

**Storage and shelf-life**

When stored in its original packaging, at a temperature of between +2°C and +30°C, the **CAF 730 MF** may be stored for up to 18 months from its date of manufacture.

Comply with the storage instructions and expiry date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the products meet the sales specifications.

**Safety**

Please consult the Safety Data Sheet of **CAF 730 MF**.

**Warning to the users**

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