SILICONES

# CAF ® 730 MAINTENANCE-SERVICING-REPAIR RANGE



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TECHNICAL DATA SHEET Cancels and replaces SIL 01 395 3

### **Description**

**CAF 730** 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.

## **Applications**

**CAF 730** 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**

- Non corrosive.
- · Low odour.
- · Excellent thermal ageing.
- · Good dielectric properties.

#### Characteristics

#### 1 - Processing/curing

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

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

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

\*Temperature 23°C, relative humidity 50%

The cure rate increases with temperature and hygrometry.



# 2 - Properties before curing **Characteristics** Appearance..... non flowing paste Colour ......white Cure type . . . . . oxime (Standards ISO R 1183, DIN 53479, NMRPS 703) Flowability, in mm .....≤2 (Standards BOEING S 7502, NMRPS 459) Extrusion, g/min .....≥ 120 (Standards NMRPS 495A 3 mm/3 bars) 3 - Properties after curing (Standards ISO R2781- DIN 53479 - BS 903 Part A1-ASTM D297) 3.2 Mechanical properties: (Standards ISO R 868-DIN 53505-ASTM D 2240 BS 903 Part A7-NF T 46003-NMRPS 471) Modulus at 100% elongation, MPa ..... 0.5 (Standards ISO R 37 (H2)-DIN 53504-ASTM D 412 NF T 46002 (H2)-NMRPS 470) (Standards ISO R 37 (H2)-DIN 53504-ASTM D 412 NF T 46002 (H2)-NMRPS 470) ......400 Elongation at break, % ..... (Standards ISO R 37 (H2)-DIN 53504-ASTM D 412 NF T 46002 (H2)-NMRPS 470) Tear strength, kN/m ......4.0 (Standards ASTM D 624 specimens A-NMRPS 492) 3.3 Thermal properties: Temperature range for continuous use. ..... - 55,+ 200°C (On 2 mm thick film, 1000h) Maximum recommended peak temperature.....+ 225°C (On 2 mm thick film, 72 h). N.B.: These thermal values are not absolute limits. They represent the range within which initial mechanical properties are not modified by more than 50%. Moreover, when using at peak temperatures, exposure for periods of less than 72 h, enables higher maximum temperatures to be used. 3.4 Adhesion properties: On aluminium AG3, primerless (Joint 1 mm thick) Type of failure ......adhesive

(Cont.)

Characteristics (cont.)	• On aluminium AG3 or on stainless steel with primer PP878, PM 832 HR Pex or PM 820 (*)
	Shear strength, MPa
	Type of failure
	On Polyesters, polyamides, ABS, polycarbonate, PMMA with primer PP878, PM 832 HR Pex or PM 820 (*)
	Shear strength, MPa
	Type of failure100% cohesive
	Comment: Primer PP 878, PM 832 HR Pex or PM 820 (*) are not concerned by new regulations on glycol ethers.
	Primerless self adhesion glass, enamel, ceramics
	3.5 Dielectric properties :
	Dielectric strength, kV/mm
	Dielectric constant at MHz
	Dielectric dissipation factor at 1MHz
	Volume resistivity, $\Omega$ .cm
	3.6 Miscellaneous:
	Self-combustion temperature, °C
Packaging	<ul><li>100 g tubes on pallets of 1600 units.</li><li>310 ml cartridges on pallets of 1200 units.</li></ul>
Storage and shelf life	When stored in its original unopened packaging at a temperature of between +2°C and +30°C, <b>CAF 730</b> can be used for up to 12 months from its date of manufacture (expiry date). Comply with the storage instructions and expiry date marked on the packaging.  Past this date, Rhodia Silicones no longer guarantees that the product meets sales specifications.
Safety	Consult the Safety Data Sheet for CAF 730.
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