CAF 30



Technical Data Sheet n° 759-V8 – 2019/11/04

Description

CAF 30 is a one-component silicone elastomer that cures at room temperature:

- ACETIC
- NON-FLOWING
- WHITE, BLACK, TRANSLUCENT (standard), RED (on request)
- ADHESIVE

Examples of applications

It is mainly intended for professional customers as a flexible bonding agent to provide sealing, bonding and protection, etc.

Its high elongation/break properties allow it to absorb significant differential expansion movement.

- Bonding/sealing in the industrial sector.
- Sealing of side windows on trains.
- Sealing of heat sources (ovens, heat exchangers, steam circuits, water heaters).
- Bonding of HCR silicones.
- General servicing and maintenance applications in various sectors: automotive, aeronautical, railways, chemicals, industry, etc.

Key benefits

- Choice of colors.
- Good heat stability.
- Good dielectric properties.
- Adhesion to many surfaces.
- Resists water and humidity.
- Quick curing.
- High elongation at break.

Typical properties

1. Processing/Curing

Processing is particularly easy since the product is delivered ready to use. Application can be carried out manually or using robotize application equipment.

The CAF 30 bead is applied onto one of the two joint surfaces. Assembly must be carried out before the product has formed a skin.

It is recommended not to exert an immediate strain on the assembly.

Curing

CAF 30 starts to cure as soon as the product is brought into contact with atmospheric humidity.

- Skin formation time*, min.....6
- Cure rate of 2 mm thickness*, h6
- Cured thickness after 24 h*, mm4.2
- *Temperature 23 °C, relative humidity 50 %

The cure rate increases with temperature and hygrometry.

Comment: it is recommended to apply the product to clean, dry surfaces.

2. Properties before curing

Appearance	non-flowing paste	



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Colors: standard on request	white, black, translucent red, grey, blue
Cure type	acetic
Flowability, in mm (Standards BOEING S 7502 - NMRPS 459)	≤2
Extrusion, g/min. (Standard NMRPS 495 A, 3 mm / 3 bars)	40
Specific gravity at 25 °C (Standard ISO R 1183, DIN 53479, NMRPS 703)	1,04

3. Properties after curing

3.2. Mechanical properties after 7 days

3.3 Thermal properties or heat stability

	CAF 30 Black	CAF 30 Other colors
Lower temperature limits: brittle point (measured using differential calorimetric analysis)	− 60 °C	– 60 °C
Upper temperature limits: maximum recommended service temperature		
- CONTINUOUS (on thick film, 1000h)	+ 250 °C	+ 250 °C
- peak	+ 300°C	+ 250 °C

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 %.

Furthermore, for peak usage, exposure for less than 72 hrs authorizes higher maximum temperatures.



3.4. Adhesion properties

Carton

Shear strength on aluminum, MPa				
 Type of failure; cohesive, %				
metals. Outside of humid heat conditions on metal and polyester.				
Adhesion with a primer: - Stainless steel, aluminiumprimer PM 820				
- ABSprimer PM 820				
- Polymethyl methacrylateprimer 131				
- Composites filled with 30 % glass fiberprimer PP 878 (polyamide, polyester, polypropylene)				
 3.5. <u>Dielectric properties</u> Dielectric strength, kV/mm				
• Dielectric constant at 1 MHz				
• Dielectric dissipation factor at 1 MHz3 x 10 ⁻³ (Standards NFC 26250, ASTM D 150, IEC 250)				
• Volume resistivity, W.cm				
3.6. <u>Heat stability</u>				
Classification according to standard NF F 16 101: Fire classification				
Fire classification				
Fire classification				
Fire classification				
Fire classification				
Fire classification				



Instruction of use

Regulation Limitations

Packaging

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Storage and shelf life	When stored in its original packaging:
	CAF 30 BLACK may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 24 months from its date of manufacturing. CAF 30 RED may be stored at temperatures between 2°C / 36°F and 50°C / 122°F for up to 24
	months from its date of manufacturing.
	CAF 30 TRANSLUCENT may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 24 months from its date of manufacturing.
	CAF 30 WHITE may be stored at temperatures between 2°C / 36°F and 30°C / 86°F for up to 24 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 30 BLACK, CAF 30 RED, CAF 30 TRANSLUCENT and CAF 30 WHITE

Visit our website www.silicones.elkem.com

Warning to the users

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