

Description CAF 2 and CAF 2 Fluid are one component silicone elastomers that cure at room temperature on contact with air humidity.
These products are:

- Oxime type,
- Translucent,
- Of variable rheology, from self-leveling to fluid.

Examples of applications CAF 2 and CAF 2 Fluid are particularly well suited to bonding, protection and maintenance applications requiring low viscosity.
They are particularly recommended for electrotechnical and electronic applications due to their non-corrosive nature.
They are notably used for:

- Bonding/sealing of electronic casings,
- Encapsulation of electrical and electronic components,
- Connector sealing,
- Glass, ceramic and mirror bonding.

Key benefits

- Non-corrosive
- Low odor

Typical properties

	CAF 2
Viscosity NF T 76102	80000 mPa.s
Hardness ISO 868	18 sh.A
Tensile strength NF ISO 37	0.7 MPa
Elongation ISO 37	250 %

1. Processing / Curing

CAF 2 and CAF 2 Fluid are particularly easy to process since the products are delivered ready to use. Application can be carried out manually or using robotized application equipment. CAF 2 and CAF 2 Fluid are applied to one of the two joint surfaces. Assembly must be carried out before the product has formed a skin. It is recommended to apply CAF 2 or CAF 2 Fluid to clean and dry surfaces.

CAF 2 and CAF 2 Fluid start to cure as soon as the product comes into contact with atmospheric humidity.

Skin formation time, min12

Curing time for 2 mm thickness*, h 16

Cured thickness after 24 h*, mm3

*Temperature 23 °C, relative humidity 50 %

Curing increases with both temperature and hygrometry.

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2. Properties before curing

Properties	CAF 2	CAF 2 Fluid
Appearance.....	self leveling	flowing
Color	translucent	translucent
Odor	slight	slight
Specific gravity	0,99	1,00
(Standards NMRPS 703, ISO R 1183, DIN 53479)		
Flowability		
(test BOEING S 7502 / Test MIL S 880-2-D)		
Brookfield viscosity.....	260	not significant
(Standard ASTM D445)	80 000 mPa.S	30 000 mPa.S

3. Properties after curing

3.1. Specific gravity of the cured product at

23 °C1.00(Standards ISO R 2781, BS 903 Part A1, ASTM D 297)

3.2. Mechanical properties after 7 days at room temperature (Measured on 2 mm thick films):

Shore A

Hardness.....

18(Standards ISO R 868, DIN 53505, ASTM D 2240,BS 903 Part A7, NF T 46003, NMRPS 471)

Modulus at 100 % elongation, MPa

0.3(Standards ISO R 37 (H2), DIN 53504, ASTM D 412,BS 903 Part A2, NF T 46002 (H2), NMRPS 470)

Tensile strength,

MPa.0.7(RPS 470, DIN

53504, ISO R 37(H2), AFNOR NFT 46002 (H2), ASTM D 412)

Elongation at break,%

250(Standards ISO R 37 (H2)-DIN 53504-ASTM D 412NF T 46002 (H2)-NMRPS 470)

Tear strength,

kN/m1.8(Standards

ASTM D 624 specimens A-NMRPS 492)

3.3. Thermal properties:

Temperature range in continuous use.....- 50,+

150 °C(On 2 mm thick film, 1000 h)

Maximum recommended peak temperature + 250 °C(On

2 mm thick film, 72 h)

N.B: These thermal values are not absolute limits they represent the range within which the initial

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mechanical properties are not modified by more than 50 %. Furthermore for peak usage, the maximum recommended temperature is higher for a total exposure time of under 72 h.

3.4. Adhesion properties:

- On aluminum AG3

Shear strength,

MPa 0.4(1mm thick joint)

- Self-adhesion on glass, enamel, wood, polar plastics etc...

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

Instruction of use

Packaging

- CAF 2 is available in
 - Drum of 25 KG (55.13 LB)
- CAF 2 FLUID is available in
 - Drum of 25 KG (55.13 LB)

Storage and shelf life

When stored in its original packaging:

CAF 2 may be stored for up to 10 months from its date of manufacturing.

CAF 2 FLUID may be stored for up to 10 months from its date of manufacturing.

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

Regulation

Please consult your local ELKEM SILICONES sales office.

Limitations

Please consult your local ELKEM SILICONES sales office.

Safety

Please consult the Safety Data Sheet of:
CAF 2 and CAF 2 FLUID

Visit our website www.silicones.elkem.com

Warning to the users

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