2 Elkem CAF 4

Description	 CAF 4 is a one component silicone elast Acetic Self-levelling Off-white 	omer which cures at room temperature:	
Examples of applications	 CAF 4 is mainly used in industrial sealing, bonding and coating applications: It is notably used for: bonding of plastics in aeronautics, electrical insulation, coating of fabrics for thermal protection, coating of conveyor belts. 		
Key benefits	CAF 4 is quick curing, has very good mechanical properties, good heat stability and high dielectric properties. CAF 4 therefore provides perfect assembly and complete sealing between different materials subject to thermal stresses		
Typical properties	 Processing / Curing Processing: Processing is particularly easy, since the products are delivered ready to use. Application can be carried out either manually or using robotic application equipment. 		
	 CAF 4 is applied to one of the two joint surfaces and assembled before the product has formed skin. It is recommended to apply CAF 4 to clean and dry surfaces. CAF 4 is coated using a spray gun after having been diluted in white spirit or cyclohexane. The ideal viscosity for this is 1000 mPa.s. 1.2. Curing: CAF 4 starts curing as soon as the products come into contact with atmospheric moisture. Skin formation time*, min. approx		
	Colour	off-white	
	Odour	acetic	
	Flowability, in min (Standards MIL S 880-2-D, NMRPS 459)	4	
	Viscosity, mPa.s (Standards NF T 76105, ASTM D 445)	250 000	
	Specific gravity at 25 °C (Standards ISO R 1183, DIN 53479, NMRPS 703)	1.16	
	(Standards ISO R 1183, DIN 53479, NMRPS 703) 3. <u>Cured product properties</u> 3.1.	1.16	



(Standards ISO 2781, ASTM D 297, BS 903 part. A1)

3.2. Mechanical properties after 7 days at room temperature:Shore A hardness	
(Standards ISO R 868, DIN 53505, ASTM D 2240BS 903 Part A7, NF T 46003, NMRPS 471)	
• Modulus at 100 % elongation, MPa	0.8
• Tensile strength, MPa	3.8
• Elongation at break, %	290

٠	Tear strength, kN/m 4.5	į
(Star	ndards ASTM D 624 specimen A, NMRPS 492)	

3.3. Thermal properties:

Lower usage temperature limit	
Brittle point	- 65°C
Temperature range in continuous use (on a 2 mm thick film, 1000 h)	– 60 °C to + 225 °C
Maximum peak recommended temperature (on a 2 mm thick film, 72 h)	+ 250 °C

N.B: These values are not absolute limits, but the range within which variations in mechanical properties are not reduced by more than 50 %.

In the case of exposure for periods shorter than 72 h, the product withstands higher peak temperatures.

3.4. Adhesion properties:

- <u>on aluminium AG3</u> (1 mm thick joint, curing 7d at 23 °C, NMRPS 748)

Shear strength, MPa	1.2
Type of failure	cohesive

- on other surfaces:

Self adhesion on	glass, enamel, ceramics, epoxy paint
Adhesion with primer	
on polar plastics	primer PM 820 or PP 878
on stainless steel	primer 131 or PM 820
on other metals	primer 131 or PM 820

3.5. Thermal conductivity:

Thermal conductivity at 30 °C, W/m.K..... 0.30(Standard NF x • 10021)

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	3.6. <u>Dielectric properties</u> : Dielectric strength, kV/mm		
	• Dielectric constant at 1 MHz		
	• Power factor at 1 MHz		
	• Volume resistivity, .cm		
	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	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	 CAF 4 is available in Drum of 230 KG (507.15 LB) Piece of 0.1 KG (0.22 LB) Carton of 25 PC 		
Storage and shelf life	When stored in its original packaging: CAF 4 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 4		

Visit our website www.elkem.com/silicones/

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