

BLUESIL™, CAF®, CAF® AXAD, ESA



## Silicones solution for domestic appliances

Bluestar Silicones. Delivering Your Potential.

**BLUESTAR**  
SILICONES

# SILICONES SOLUTION for domestic appliances



## A RANGE OF ELASTOMERIC SILICONES SPECIALLY DESIGNED FOR:

- Production of Domestic Appliances using Processing Technology  
For small productions runs to high productivity
- Both Domestic & Industrial uses
- Protecting the workstation environment  
Bluestar Silicones technologies are developed to release no irritating or unpleasant smelling by-products on curing

## Under brand names: CAF® & Bluesil™

### ◆ CAF®

- > Thixotropic, Fluid and Extra Fluid
- > One component (RTV-1)
- > Room Temperature Vulcanizing with air & moisture
- > Flexible elastomers with outstanding properties

### ◆ CAF® AXAD

- > Two components (RTV-2)
- > Unique Technology using accelerating agent, added to RTV-1 providing a complete curing even in confined environment (in absence of atmospheric moisture)
- > High productivity levels by reducing production time
- > High heat Resistance

## FOOD CONTACT APPLICATIONS

For the above products, compliance with regulations must be checked with your Sealing & Bonding Technical Customer Service Laboratory.

### ◆ BLUESIL™ ESA

- > Two components RTV-2 adhesive silicon elastomers
- > Curing in a few minutes at high temperatures (from +100°C to +180°C)
- > With consistency ranging from self levelling to thixotropic
- > High level of primer-less adhesion on most materials

### ◆ BLUESIL™ HCR MASTER BATCH

- Uncured HCR offer an excellent compromise between mechanical properties, exceptional processability and optimized performances in terms of converting.
- > Heat stability in continuous use from - 50 to 200°C (can be increased up to 250°C and even up to 300°C using specific additives)
  - > Exceptional ageing resistance (even under extreme conditions)
  - > Great flexibility of use:  
Wide possibilities for blending with other Bluesil™ HCR  
Easy pigmentation using Bluestar Silicones color bases for HCR  
Easily extended with silica fillers (quartz type)

### ◆ BLUESIL™ HCR/PAL

- > Ready to use heat curing elastomers processed by extrusion, injection moulding, calendaring
- > Mainly developed and sold in Mix & Fix centers
- > Intended for use by rubber converters & Components manufacturers

### ◆ BLUESIL™ RT FOAM

- > Two components silicone foam curing by addition reaction
- > Easy curing at temperatures above +20°C even in the complete absence of air & moisture
- > Good chemical & temperature resistance
- > Easy automatic processing for gaskets application

### ◆ SILBIONE RESINS

- > Performance additives for food release coatings (protection & decoration)
- > With excellent heat stability & ageing resistance (ozone, water, light...)

# Heat Stability

	Hobs	Ovens					Steam Iron		
		Inner insulation glass		External glass	Front Panel/ Handle	Chimney	Water box	Steam chamber	Iron Sole
		Microwaves	pyrolyse	All ovens		Steam ovens			
Service temperature	+180°C to +220°C	+180°C to +220°C	250°C 1000 H 275°C 72 Hours	200°C 1000H 220°C 72 Hours	120°C	100°C	> 150°C	230°C in continuous 300°C in peak	250°C in continuous 300°C in peak
Adhesion on substrates			screen-printed glass, stainless steel, aluminium, coated steels				Aluminium, Steel		
	Some plastics, powder coated glass	Plastics	Painted or powder coated profiles, (fluorinated paints)		Plastics, painted steel	Plastics	Plastics		
Main Product properties requested	Thixotropic Black, dark grey High productivity (fast cure rate) Adapted for visible gaskets  High Shear strength High heat stability, heat & humidity resistance				Thixotropic Black, White & translucent Fast cure Good elongation	Primer-less Black  Good elongation, steam resistance	Thixotropic Mono-component	Mono-component Self levelling Primerless Steam, heat & Humidity resistance	
Range/products	CAF & CAF AXAD ranges					CAF RANGE		CAF FLUID RANGE	



*A quality system certified to NF EN ISO 9001 : 2008 and NF EN / AS 9100 standard*

*An ongoing commitment to safety, protection of health and the environment*

Having signed its name to the U.I.C. (Chemical Industry's Union) commitment to progress, Bluestar Silicones is committed to manufacturing its products and carrying out its operations with a continuous focus on improving safety and protecting health and the environment.



# SILICONES SOLUTION

# functions & applications

## BONDING

Bluestar Silicones has developed the CAF® and CAF® AXAD ranges including selective bonding rates to obtain flexible to structural bonding with primer-less adhesion (a primer may be required in certain cases) and high heat performance

### MICROWAVES OVENS

- ◆ Bonding of double glazing - Insulation
- ◆ Bonding of front Panels - Adhesion  
→ Need : heat resistance

### VITROCERAMIC HOBS

- ◆ Bonding hobs on metal & plastic frames  
→ Need : heat resistance
- ◆ Sealing & bonding of hobs with visible gasket  
→ Protecting workstation environment and high productivity  
→ Guarantee of assembly stability

### OVENS

- ◆ Bonding of inner, outer glasses - insulation
- ◆ Bonding of brackets, profiles, metallic elements  
→ Adhesion, high heat resistance  
→ High performance, responding to customer's requirements, cover a wide range of heat and humidity environments
- ◆ Bonding of front panels - Adhesion on stainless steel and many substrates



		Bicomponents - CAF®	
		Activated acetoxo (Adh)	
		CAF 8 axad	CAF 33 axad
	Heat resistance		
	Min Temperature Service	-65°C	-65°C
	Max Temperature Service	300°C	250°C
Applications	Fonctions		
Electrical Resistance	Maintaining resistance		
Steam Iron	Sealing of water box		
	Sealing of steam chamber		
	Bonding of sole	●	
Cold chamber	Bonding of sealing-joint		
Washing machine	Sealing of drum		
Dish-washer	Bonding of ABS panel		●
Microwaves	Bonding of double glazed door		●
	Front panels		●
Vitreoceramic hobs	Bonding of the glass to the frame		●
	Visible gasket		●
ovens, steam-ovens, pyrolysis ovens	Bonding inner, outer glasses		●
	Bonding of profiles, brackets of the door		●
	Bonding of front panels, handles		●
Maintenance, industry	Repairs, bonding	●	●

\*Black colour \*\*15H at 320°C \*\*\*Self-adhesive on aluminium, glass, enamel and ceramics, on other substrates



## SEALING

In order to answer all needs in term of sealing, Bluestar Silicones has developed a range including self levelling and thixotropic silicones with acetoxy curing (quick curing) system and high heat resistance

## WASHING MACHINE

- ◆ Sealing during drum assembly  
→ Removable repairs, barrier to water even with detergent & temperature

## IRONS

- ◆ Sealing & bonding of steam chamber, water box and ironing sole  
→ Self levelling (fluid) high temperature properties and thermal conductivity

## ELECTRICAL RESISTANCE

- ◆ Maintain standard or high performance resistance  
→ Exceptional dielectric properties, stable over a wide range of temperature

AXAD	Mono-components - CAF®											
Resistive***)	Acetoxy (Adhesive***)							Oxime (Self-adhesive)		Alcoxy (Self-adhesive)		
CAF 99 axad	CAF 1	CAF 1 extra Fluid	CAF 8	CAF 36	CAF 30	CAF 33	CAF 5662	CAF 22 Ox	CAF 240	CAF 505	CAF 520	CAF 530
-70°C	-65°C	-65°C	-65°C	-60°C	-65°C	-65°C	-65°C	-55°C	-60°C	-60°C	-60°C	-60°C
275°C	300°C	275°C	300°C**	300°C**	280°C*	300°C*	275°C	250°C	230°C	180°C	150°C	185°C
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