

ASI GM10

GM 10 is a one component, gel-like anaerobic flange sealant that cures at room temperature and seals close fitting joints between metal faces and flanges. Replaces solid gaskets, provides flexible cured films, seals gas and LP gas, gasoline, oils, water and industrial fluids. Typically used as a liquid gasket for pumps, thermostats, compressor, transmission, housing and axle covers. GM 10 is designed to be used and cured at room temperature. Where cured speed is unacceptably long, or large gaps are present, applying activator to the surface will reduce the curing within few minutes.

Technology / Base	Methacrylate Ester
Type of Product	Flange Sealant
Components	One Component
Curing	Anaerobic with Secondary Heat Cure or Accelerated with Activator
Appearance / Color	Purple
Consistency	Light Paste

Features and Benefits

• Fluorescent UV Indicator

- High Environmental Resistance to Gas, LP gas, Gasoline, Oils, and Industrial Fluids
- High Resistance to Heat, Corrosion, Vibrations, Water, and Many Chemicals

General Instructions

Surfaces to be bonded should be clean and dry and free of grease. Product should be applied in enough quantity to fill all engaged threads or gap. The product performs best in thin bond gaps. Very large gaps may create gaps that will affect the cure speed and overall strength. Good contact is essential. It is recommended to confirm compatibility of the product with all substrates prior to use. This product is not recommended for use with strong oxidizing materials. Where aqueous washing systems are used to clean the surfaces before bonding, these aqueous washes can affect the cure and performance of the adhesive. This product is not normally recommended for use on plastics, users must check compatibility of the product with such substrates.

Safety and Disposal

For complete safety and handling information, please refer to the appropriate Safety Data Sheets prior to using this product.



Note

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Curing Performance

The rate of cure will depend on environmental conditions and the substrates used. The gap of the bond line will affect set speed. Smaller gaps tend to increase set speed. Activators may be applied to further improve set speed, but may also impair overall adhesive performance.

Storage

Products should be stored unopened in a cool, dry place out of direct sunlight. Products may be refrigerated for improved shelf life, but should be brought back to room temperature before use.



		Technical Data	
Physical Property		Value	Condition/Method
Uncured Material Characteristic	S		
Viscosity		200,000 to 350,000 cPs	Brookfield at 25°C, Spindle 2, 5 rpm
Specific Gravity		1.1	
Flash Point		> 93°C	
Shelf Life		12 months unopened	
Storage Condition		8 to 28°C	
Solubility			
Gap Fill			
Set Time on Steel		48 to 72 hours	
Handling Strength			
Functional Strength			
Full Cure Conditions		24 nours at room temperature, or 45°C bo	ondline temperature for 1 hour to achieve
		\geq 70% of strength on steel, or apply activ	ator to opposite surface as adhesive to
Cured Material Properties			
Coefficient of Thermal Expansion		80 ppm/K	ASTM D696
Thermal Conductivity		0.1 W/mK	ASTM C177
Specific Heat		0.3 kJ/kgK	
Breakaway Torque			
Prevailing Torque			
Breakloose Torque			
Pin/Collar Shear Strength			
Service Temperature		-55°C to 150°C	
Shear Strength		3 to 9 MPa	
Tensile Strength		7 to 21 MPa	
Pressure Resistance			
Heat Aging Testing			
Cure Speed At Various Temperatures			% of Room Temperature Strength
		50%	
5°C 2 hr		4 hrs	24 to 48 hrs
40°C 15 m	nin	30 min	12 hrs
Cure Speed On Various Substra	ites		% of Room Temperature Strength
25%		50%	100%
Steel 1 h	r	3 hrs	24 hrs
Aluminum 1 h	r	3 hrs	48 to 72 hrs
Stainless Steel			
Brase			
Zn Dichromate 1 h	r	3 hrs	24 hrs

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		l'echnical Data	
Physical Property		Value	Condition/Method
		<u> </u>	
Cure Speed For Various Gap Sizes		<u> </u>	% of Room Temperature Strength
	25%	50%	100%
0.0mm	1 hr	3 hrs	24 hrs
0.05mm		1	
0.15mm		1	
0.25mm	24 hrs	48 to 72 hrs	-
0.5mm		1	
Chemical Resistance Testing			
	Test Temperature	% of Room Temperature Strength	Condition
50% Water/50% Glycol	87°C	80%	1000 hours measured at room conditions
Unleaded Gasoline	22°C	15%	1000 hours measured at room conditions
Motor Oil	125°C	165%	1000 hours measured at room conditions
Brake Fluid		1	
Acetone		1	
Isopropyl Alcohol		1	
Toluene	1 1	1	

Specifications

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