SILFILL CONDUCTIVE ADHESIVE AS Shielding

Our AS Shielding one-part conductive particle filled silicone rubber adhesives are available using standard silicone and fluorosilicone base compounds combined with a selection of particle fillers to produce a readily extrudable paste which self-cures when exposed to atmospheric moisture. Once the thixotropic paste is fully cured it provides excellent adhesion and low volume resistivity.

Applications:

AS filled silicone adhesives are generally employed as caulking materials to fill v oids, s urface i mperfections on m ating s urfaces or t o r etain a conductive gasket in position during assembly. Most conductive gaskets depend on flat, accurate and clean mating surfaces to provide a positive, low impedance bond and the additional use of conductive adhesives should be avoided wherever possible.

Shelf life is up to sixteen weeks (30ml, 55ml) or six months (71ml, 170ml, 310ml) if kept in the original packaging and stored in a dry atmosphere below 23°C.

AS adhesives should be injected under pressure if possible, and, where used as or with a gasket, should be retained under pressure whilst curing. This enhances the conductivity of the compound. Care should be taken when handling the compound as contact can irritate the skin and eyes.

Specifications:

Standard base rubber is silicone.



How to order:

Specify: Series - Filler code - Tube size

Example:

AS-N-030 is a 30ml cartridge of nickel-graphite filled silicone adhesive

Notes:

Some filler types may be subject to minimum order quantities.

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Nolato

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SERIES	FILLER CODE	TUBE SIZE
AS=Silfill conductive adhesive	N=Nickel Graphite	030= 30ml cartridge
	J=Silver Aluminium	055= 55ml cartridge
	H=Silver Copper	071= 71ml cartridge
		170= 170ml cartridge
		310= 310ml cartridge

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Further Specifications:

SILVER LOADED EPOXY ADHESIVE: PPT Bond Epoxy SE-2P	
UNCURED PROPERTIES	
Colour	Silver
Form	Semi viscous paste
Cure time at 23oC / 50% RH	24 Hours
Recommended minimum time before stressing bond	48 Hours
CURED PROPERTIES	
Density	3.0g/cm3
Adhesion – lap shear (aluminium to aluminium)	850 N.cm2
Service temperature range	-50oC to 200oC
Bond resistance (aluminium to aluminium)	<10mΩ/cm2
Thermal conductivity	4.8 Wm/K
Recommended bond thickness	0.25mm

NICKEL GRAPHITE LOADED RTV SILICONE: PPT Bond AS-N

UNCURED PROPERTIES				
Colour	Grey			
Form	Semi flowable paste			
Cure time at 23oC / 50% RH	24 Hours			
Recommended minimum time before stressing bond	48 Hours			
CURED PROPERTIES				
Density	2.1g/cm3			
Hardness	75 Shore A			
Adhesion – lap shear (aluminium to aluminium)	150 N.cm2			
Service temperature range	-50oC to 150oC			
Bond resistance (aluminium to aluminium)	<10mΩ/cm2			
Thermal conductivity	1.0 Wm/K			
Recommended bond thickness	0.05 - 05mm			

SILVER ALUMINIUM LOADED RT SILICONE: PPT Bond AS-J

UNCURED PROPERTIES					
Colour	Light tan				
Form	Semi flowable paste				
Cure time at 23oC / 50% RH	24 Hours				
Recommended minimum time before stressing bond	48 Hours				
CURED PROPERTIES					
Density	2.1g/cm3				
Hardness	65 Shore A				
Adhesion – lap shear (aluminium to aluminium)	150 N.cm2				
Compression recommended (allowed range) 25%	(10 - 50%)				
Service temperature range	-50oC to 125oC				
Bond resistance (aluminium to aluminium)	<20mΩ/cm2				
Thermal conductivity	0.8 Wm/K				
Recommended bond thickness	0.05 - 05mm				

SILFILL CONDUCTIVE ADHESIVE AS Shielding

Further Specifications:

	SILVER COPPER LOADED RTV SILICONE: PPT Bond AS-H	
	UNCURED PROPERTIES	
	Colour	Tan
	Form	Semi flowable paste
	Cure time at 23oC / 50% RH	24 Hours
	Recommended minimum time before stressing bond	48 Hours
	CURED PROPERTIES	
	Density	3.3g/cm3
	Hardness	65 Shore A
	Adhesion – lap shear (aluminium to aluminium)	150 N.cm2
	Compression recommended (allowed range) 25%	(10 - 50%)
	Service temperature range	-50oC to 125oC
	Bond resistance (aluminium to aluminium)	<10mΩ/cm2
	Thermal conductivity	1.0 Wm/K
	Recommended bond thickness	0.05 - 05mm
1000		