

Metalset® A4

Silicone

Smooth-On, Inc

Message:

Metalset® A4 is a powerful epoxy adhesive that has been used for years by all branches of the U.S. Military as well as every major airline and auto manufacturer in the world. Metalset® A4 is used for hundreds of industrial bonding applications and offers excellent adhesion to porous or non-porous surfaces. It can be applied to vertical surfaces without sagging and cures overnight with negligible shrinking. Once cured, Metalset® A4 offers good machining qualities (sanding, drilling, tapping), and resists alkalies, dilute acids and solvents. Applications include stopping leaks in pipes, valves and tanks (i.e. car gas tanks), bonding like and unlike surfaces, filling metal joints, dents, etc., anchoring bolts in wood, concrete, and repairing metal surfaces.

General Information			
Filler / Reinforcement	Aluminum		
Features	Acid Resistant		
	Alkali Resistant		
	Bondability		
	Good Adhesion		
	Low Shrinkage		
	Machinable		
	Solvent Resistant		
Uses	Aircraft Applications		
	Bonding		
	Metal Bonding		
	Metal Repairing Material		
	Military Applications		
	Repairing Material		
Appearance	Silver		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm³	
Specific Volume	0.704	cm³/g	
Viscosity	Paste-like		
Mixing Ratio	1A:1B by volume or weight		
Sag Resistance	6.35	mm	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	71		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1140	MPa	ASTM D638
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Break)	1.2	%	ASTM D638
Compressive Modulus	1100	MPa	ASTM D695

Compressive Strength	51.7	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.2	°C	ASTM D648
Thermoset	Nominal Value	Unit	
Pot Life (23°C)	22	min	
Demold Time (23°C)	960	min	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

