

Devcon Titanium Putty

Epoxy; Epoxide

Devcon

Message:

High-tech, titanium-reinforced epoxy putty engineered for making critical repairs to machinery and precision parts.

Intended Use:

Restore bearing housings and scored shafts; rebuild wear rings, hydraulic rams, and valves; repair equipment and parts that require a machined finish

Product features:

High compressive strength

Temperature resistance to 350°F

Resistant to chemicals and most acids, bases, solvents, and alkalis

General Information			
Filler / Reinforcement			
Features	Solvent resistance		
	Good compressive strength		
	Good chemical resistance		
	alkali resistance		
	alkali resistance		
	acid resistance		
Uses	Repair Materials		
Agency Ratings	MIL PRF-24176C		
Appearance	Grey		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.36	g/cm³	
Specific Volume	0.423	cm³/g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	177	°C	
Wet	66	°C	
Tensile Shear Adhesion	13.8	MPa	ASTM D1002
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	87		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6550	MPa	ASTM D638
Flexural Strength	53.1	MPa	ASTM D790
Compressive Strength	105	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.82	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	2.2	kV/mm	ASTM D149
Dielectric Constant	44.8		ASTM D150
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components

Mixing ratio by weight: 4.3

Component a

Mixing ratio by capacity: 3.1

Mixing ratio by weight: 1.0

Component B

Mixing ratio by capacity: 1.0

Pot Life (24°C)	21	min
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Additional Information	Nominal Value	Unit	Test Method
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Cured 7 days @ 75°F

Uncured Properties	Nominal Value	Unit	Test Method
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Curing Time	16	hr
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