

# Devcon Bronze Putty

Epoxy; Epoxide

Devcon

Message:

Bronze-filled epoxy for repairing, rebuilding, and maintaining bronze parts and equipment

Intended Use:

Repair, rebuild, and maintain marine propellers, shafts, trays, chutes, gate valves, and pump wear rings

Product features:

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

Machinable to metallic finish

Bonds to ferrous and non-ferrous metals

General Information	
Filler / Reinforcement	Bronze filler
Features	Solvent resistance
	Machinable
	Adhesiveness
	Good chemical resistance
	alkali resistance
	alkali resistance
	acid resistance
Uses	Ship application
	Metal repair materials

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.23	g/cm <sup>3</sup>	
Specific Volume	0.448	cm <sup>3</sup> /g	
Solid content-by Volume	100	%	
Temperature Resistance			
Dry	121	°C	
Wet	49	°C	
Tensile Shear Adhesion	18.5	MPa	ASTM D1002
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5520	MPa	ASTM D638
Flexural Strength	42.6	MPa	ASTM D790
Compressive Strength	58.9	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696

Thermal Conductivity	0.66	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	0.98	kV/mm	ASTM D149
Dielectric Constant	75.0		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mixing ratio by weight: 9.0		
Component a	Mixing ratio by capacity: 3.0		
	Mixing ratio by weight: 1.0		
Component B	Mixing ratio by capacity: 1.0		
Pot Life (24°C)	35	min	
Additional Information	Nominal Value	Unit	Test Method
Cured 7 days @ 75°F			
Uncured Properties	Nominal Value	Unit	Test Method
Curing Time	16	hr	

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#### Recommended distributors for this material

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