

Chipmate MetalPutty®

Repair and Patching Compound

Technical Data Sheet

Description:	Ready-to-use aluminum filled repair compound. Single component dent filler.
Color:	Metal gray
Adhesion	Excellent adhesion to clean, dry surfaces of metal (aluminum, steel, stainless steel, brass, copper, bronze etc.), wood, hard plastic, and glass. No heat needed; hardens upon exposure to air. Please note: Chipmate Metal Putty will not bond two parts together; Chipmate Metal Putty requires air in order to dry.
Hardness:	81 on Shore D scale
Coefficient of Linear Expansion:	15×10^{-6} inch / inch per °F
Strength	Tensile: 650 lbs./square inch Compressive: Approx. 20,000 psi Water pressure: 50 psi
Specific gravity:	1.95 at 75°F
Weight:	One cubic inch: 31.2 grams or 1.10 oz.
Heat resistance:	When dry and hard, withstands temperatures to 350°F and is not affected by cold to -40°F. Withstands higher temperature (up to 425°F) if heat exposure is less than 20 minutes. (For prolonged higher temperatures, Hi-Temp Chipmate Metal Putty is available.)
Chemical Resistance:	Not affected by mild acids; gasoline; petroleum; petroleum solvents; oil or L.P. gas. Alkalis will attack Chipmate Metal Putty slowly, but only after extensive immersion.
Combustibility:	Dry and hard material will not support combustion.
Conductivity:	A non-conductor at normal voltage. Not considered an insulator. Accepts ground for powder coating.
Thermal Conductivity:	Est. 1-2 BTU per sq. ft., per hour, per °F.
Mechanical Properties:	Strong and durable. Can be milled, sawed, drilled, tapped, sanded, ground, filed. Does not shrink, chip, crack or peel, and is easily feather edged. Can be painted without lifting paint.
Drying time:	Dependent upon thickness of application. Under normal conditions, a 1/16" application hardens in 1-2 hours. A 1/8" application hardens in 3-4 hours at ambient temperatures. Brush or spray applications (Chipmate Metal Putty thinned with Chipmate SOL1) dry very quickly.
Shelf life:	Two year in factory-sealed can. Store in a cool place.