



Alumite™

Description

Alumite™ is the original high temperature fluxless soldering and brazing rod for the fabrication, maintenance, and repair of casted Aluminum alloys, Zinc alloys, Zamak alloys, Pot Metal, and White Metal.

Alumite™ has been used and endorsed by leading cast Aluminum, Diecast, and White Metal manufacturers for over 65 years.

Benefits & Features

- Actual cast Aluminum solder applications result in joints that are permanent, non-corrosive and, in many cases, stronger than the parent metal
- Hard solder with a higher melting point (715-735°F / 379-391°C)
- Requires much more heat, but will produce a stronger bond between the parts

Applications

- Repair and rebuild cast Aluminum and Diecast parts
- Works well on casted parts made from Zamak alloys, White Metal, and Pot Metal
- Used to repair pitting on classic car automotive trim before Copper and Chrome plating
- Joining Aluminum to Stainless Steel
- Can be used as a general purpose high strength solder
- Used when parts are thicker and the joint needs to support greater weight or pressure
- Paired with [Kapp Lunar™ Flux](#)

Properties

Technical Data	
Melting Range:	715-735°F (379-391°C)
Tensile Strength:	39,000 psi
Compression Strength:	60,000-75,000 psi
Shear Strength:	34,000 psi
Impact Strength (Charpy):	4 ft.lbs. to break 1/4" bar
Hardness (Brinell-500 kg. load):	100
Ductility:	Good
Density:	.25lbs./cu. in.
Elongation:	3% in 2 inches
Linear Expansion Coefficient:	15.4 x 10 ⁶ / °F
Electrical Conductivity:	24.9 (%IACS)
Thermal Conductivity:	.24 cal / cm ³ / °C
Corrosion Penetration:	300 x 106 in 1 1 / R
Flux:	None on Accessible Joints, Kapp Lunar™ Flux where needed
MIL Specifications:	Meets MIL-R4208

*Note: Shear strengths based on double lap joints, Tensile strengths depend on base metals, soldering methods and type of joint.

Product Variants

*Available in standard forms: 1/32" (0.031") (0.8mm), 1/16" (0.063") (1.6mm), 1/8" (0.125") (3.2mm). Custom alloys and forms are our specialty. Call a Kapp representative to discuss what size and diameter are right for you.