



PO Box 1188, 1 Klein Street, Oil City, PA 16301-0688
Telephone: 800-327-6533 Fax: 814-676-5565
Website: www.kappalloy.com, email: jack@kappalloy.com

KappRad™

Description

KappRad™ is a Tin-Zinc-Cadmium multipurpose solder developed specifically to join and repair Aluminum and Aluminum/Copper radiators as well as heat exchangers. Its lower melting point makes delicate repair work easier. **KappRad™** forms very strong joints on most metals, including Aluminum, Stainless Steel, White Metal, Pewter, Copper, Brass, and Galvanized Steel. In addition, it can be plated with Chrome, Nickel, or Copper. In most cases, the repair is stronger than the original metal.

Applications & Features

- Join and repair:
 - Aluminum and Aluminum/Copper radiators
 - Heat exchanges
- Use any heat source :
 - Oxy-acetylene torch
 - Natural gas torch
 - Propane torch
 - Heat gun
 - Soldering iron
- Paired with Kapp Golden™ Flux
- **This alloy is NOT recommended for food or potable water applications.** Please see KappFree™ and/or KappZapp™ for Food Save and Potable Water Applications.

Properties

Composition	
Sn (Tin):	40%
Zn (Zinc):	27%
Cd (Cadmium):	33%
Technical Data	
Melting Range:	350-500°F (176-260°C)
Density:	7.643lbs./cu. in.
Electrical Conductivity:	23 (% IACS @ 68°F)
Shear Strength (Copper):	11,000 psi @ 72°F
Tensile Strength:	Up to 20,000 psi

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

Product Variants

KappRad™ is most often sold in 18" sticks of .125" (3.2mm) or .093" (2.4mm) diameters. It can be made in additional standard forms on 1 lb., 5 lb., and 25 lb. spools of diameters:

- 1/32" (0.031") (0.8mm)
- 1/16" (0.063") (1.6mm)
- 1/8" (0.125") (3.2mm)

Matching Flux

- Kapp Golden™ Flux