



TECHNICAL INFORMATION SHEET

HARRIS SAFETY SILV 45T BRAZING FILLER METAL

NOMINAL CHEMICAL COMPOSITION%:

Silver	44-46 %
Copper	26-28 %
Zinc	23-27 %
Tin	2.5-3.5 %
Other (Total)	0.15

TYPICAL PHYSICAL PROPERTIES:

Solidus	1195°F (646°C)
Liquidus	1251°F (677°C)
Brazing Range	1251°F- 1495°F (680°C -815°C)
Electrical Conductivity	18.05 (%IACS)
Electrical Resistivity	20.80
Density	4.85 (Troy ounces./cu.in.).

BRAZING PROPERTIES:

Safety Silv 45T is a cadmium free alloy which has a lower melting temperature than Safety Silv 45, and has good flow and excellent fillet forming qualities. This alloy will produce high strength ductile joints in copper, brass, and steel.

CORROSION RESISTANCE

Generally similar to the copper base metal, but zinc containing alloys, including Safety Silv50N should not be used if the braze is exposed to concentrated corrosive liquid for a long period of time.

AVAILABLE FORMS

Standard wire diameters, preform rings, coils, strip in solid metal and also as Ag Clad.

RECOMMENDED FLUX:

Stay Silv White flux, or where heating cycles are extended the Stay Silv Black Flux.

SPECIFICATION COMPLIANCE:

ANSI/AWS A5.8, ASME SFA 5.8, Class BAg-36,

SAFETY INFORMATION:

WARNING: PROTECT yourself and others. Read and understand this information.

FUMES AND GASES can be hazardous to your health. HEAT RAYS, (infrared radiation) from flame or hot metal can injure eyes.

- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheets (MSDS), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the flame, or heat source, to keep fumes and gases from your breathing zone and the general area.
- Wear correct eye, ear, and body protection.
- See American National Standard Z49.1, *Safety in Welding, Cutting, and Allied Processes*, published by the American Welding Society, 8669 Doral Blvd., Doral, Florida 33166; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402.

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