



## TECHNICAL INFORMATION SHEET

### HARRIS SAFETY SILV 50 BRAZING FILLER METAL

#### NOMINAL CHEMICAL COMPOSITION%:

Silver	49-51 %
Copper	33- 35 %
Zinc	14-18 %
Other (Total)	0.15

#### TYPICAL PHYSICAL PROPERTIES:

Solidus	1270°F (688°C)
Liquidus	1425°F (774°C)
Brazing Range	1425°F- 1600°F (775°C -870°C)
Electrical Conductivity	25.5 (%IACS)
Electrical Resistivity	6.76
Density	4.94 (Troy ounces./cu.in.).

#### BRAZING PROPERTIES:

A 50% cadmium free alloy which has a plastic range of 175°F (70°C) suitable for joining copper, steel, and brass alloys. With its wide melting range you can work on areas where there may be poor fit ups..

#### 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.

#### 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-6,

#### 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.

#### STATEMENT OF LIABILITY- DISCLAIMER

Any suggestion of product applications or results is given without representation or warranty, either expressed or implied. Without exception or limitation, there are no warranties of merchantability or of fitness for particular purpose or application. The user must fully evaluate every process and application in all aspects, including suitability, compliance with applicable law and non-infringement of the rights of others. The Harris Products Group and its affiliates shall have no liability in respect thereof.

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