



## TECHNICAL INFORMATION SHEET

### SAFETY SILV® 56N BRAZING FILLER METAL

#### NOMINAL CHEMICAL COMPOSITION%:

Silver	55.0 – 57.0
Copper	Remainder
Nickel	1.5 – 2.5
Other (Total)	0.15

#### TYPICAL PHYSICAL PROPERTIES:

Solidus	1420°F (771°C)
Liquidus	1640°F (893°C)
Brazing Range	1600°F- 1800°F (870°C -980°C)
Density	5.11 (t.o./cu.in.).

#### BRAZING PROPERTIES:

Safety Silv 56N is a zinc free brazing alloy often used for joining steel and stainless steel. It is typically used in atmosphere furnace brazing where zinc volatilization must be avoided. The melting temperature allows use in higher service temperature applications. The filler metal should be rapidly heated through its melting range to avoid liquation.

#### AVAILABLE FORMS

Standard wire diameters, coils, wound on spools, preform rings, and rods.

#### RECOMMENDED FLUX:

For torch brazing Stay-Silv® black brazing flux is often used due to the filler metal melting temperature. Harris ECO SMART® High Heat boric acid free flux, (powder or paste), is an excellent choice to promote sound brazed assemblies and comply with European REACH requirements.

#### SPECIFICATION COMPLIANCE:

AWS A5.8 BAg-13A, ASME SFA 5.8 Class BAg-13A, AMS 4765, ISO 17672 Ag 456

#### 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, Safety Data Sheets (SDS), 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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