



TECHNICAL INFORMATION SHEET

SAFETY SILV® 56 BRAZING FILLER METAL

NOMINAL CHEMICAL COMPOSITION%:

Silver	55.0 – 57.0
Copper	21.0 – 23.0
Zinc	15.0 – 19.0
Tin	4.5-5.5
Other (Total)	0.15

TYPICAL PHYSICAL PROPERTIES:

Solidus	1145°F (618°C)
Liquidus	1205°F (652°C)
Brazing Range	1205°F- 1400°F (652°C-760°C)
Electrical Conductivity	8.32 (% IACS)
Density	4.93 (to./cu.in.).

BRAZING PROPERTIES:

A cadmium free alloy with a narrow melting range Safety Silv 56 is the lowest melting temperature high silver brazing filler metal. This alloy offers good fluidity and joint strength and is used to braze copper, brass, steel, stainless steel and some nickel alloys. The silver deposit color is a good match on stainless steel. Its excellent fluidity promotes braze penetration. Close tolerances are recommended; 0.002 – 0.005" for best performance..


AVAILABLE FORMS

Standard wire diameters, coils, wound on spools, preform rings, strip, bare and flux coated rods.

RECOMMENDED FLUX:

Stay-Silv® white flux is suitable for many applications. Stay-Silv® black brazing flux is often used if brazing stainless steel or where heating cycles are prolonged or focused as in induction brazing. Harris ECO SMART® boric acid free flux, (powder or paste), is an excellent choice to promote sound brazed assemblies and comply with European REACH requirements.

SPECIFICATION COMPLIANCE:

ANSI/AWS A5.8 BAg-7, ASME SFA 5.8, & QQ-B-654A
Class BAg-7, AMS 4763, National Sanitation Foundation
 Standard 51, ISO 17672 Ag 156

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.

THE HARRIS PRODUCTS GROUP

A LINCOLN ELECTRIC COMPANY



4501 Quality Place • Mason, OH 45040 U.S.A Tel: 513-754-2000 Fax: 513-754-6015

Additional information available at our web site: www.harrisproductsgroup.com