



## TECHNICAL INFORMATION SHEET

### STAY SILV® 50 BRAZING FILLER METAL

#### CHEMICAL COMPOSITION %:

Silver	49-51
Zinc	14.5-18.5
Copper	14.5-16.5
Cadmium	17-19
Other (Total)	0.15

#### PHYSICAL PROPERTIES:

Solidus	1160°F (627°C)
Liquidus	1175°F (635°C)
Density	4.98 troy ounces per cu.in.
Electrical Conductivity	23.9 IACS

#### BRAZING PROPERTIES:

While fluid at temperatures above its liquidus, Stay Silv 35 offers a melting range suitable for filling wider clearances. It provides excellent joint strength and ductility. It is typically used to braze steel and dissimilar metal connections, such as copper or brass to various steel alloys. A uniform clearance of 0.002" – 0.005" is recommended for best capillary action.

Stay Silv 50 can be an acceptable choice for applications where sufficient fume ventilation/exhaust equipment is in place to assure operators are not exposed to cadmium oxide fume.

#### AVAILABLE FORMS

Standard rod and wire, preform rings, wound on spools.

#### RECOMMENDED FLUX:

Stay-Silv® white flux is suitable for many applications. Stay-Silv® black brazing flux is often used to braze stainless steel or where heating cycles are prolonged or heat is focused as in induction brazing.

#### SPECIFICATION COMPLIANCE:

ANSI/AWS A5.8 Class BAg-1a, ASME SFA5.8 Class BAg-1a, QQ-B-654A Grade IV

#### SAFETY INFORMATION:

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

**CONTAINS CADMIUM – FUMES ARE POISONOUS AND CAN KILL – DO NOT BREATHE FUMES. EVEN BRIEF EXPOSURE TO HIGH CONCENTRATIONS SHOULD BE AVOIDED.**

**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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