



T H E H A R R I S P R O D U C T S G R O U P
A L I N C O L N E L E C T R I C C O M P A N Y
 4501 Quality Place • Mason, OH 45040 U.S.A Tel: 513-754-2000 Fax: 513-754-6015

TECHNICAL SPECIFICATION SHEET

ISO 9002
 Cert. No. 31598

HARRIS SAFETY SILV® 45T BRAZING FILLER METAL

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.

NOMINAL CHEMICAL COMPOSITION:

Silver	44-46 %
Zinc	23-27 %
Copper	26-28 %
Tin	2.5-3.5 %
Other Totals	.15 %

PHYSICAL PROPERTIES:

Solidus	1195°F (646°C)	Specific Gravity	9.40
Liquidus	1265°F (685°C)	Electrical Conductivity (% I.A.C.S.)	18.05
Color	Bright Shiny Light Yellow	Electrical Resistivity (Microhm-cm)	20.80
Density (Troy Oz./cu. In.)	4.85		

BRAZING PROPERTIES:

Safety-Silv® 45T is a Cadmium free allow which has a lower melting temperature than our 45% alloy, and also has good flow and excellent fillet forming quality. This alloy will produce high strength ductile joints in copper, brass, and steel.

AVAILABLE FORMS:

- Standard wire diameters
- Preformed Rings
- Flux Coated rods

SPECIFICATION / CERTIFICATIONS COMPLIANCE:

NSF 51 ANSII/AWS A5.8, Class BAg-36

RECOMMENDED FLUX:

Stay-Silv® white flux, or where heating cycles are extended, Stay-Silv® black flux.

All statements, information and data given are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind, expressed or implied.

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

9/01 DC



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

FUMES AND GASES can be hazardous to your health.

ARC RAYS can injure eyes and burn skin.

ELECTRIC SHOCK can KILL.

- 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 arc, or both, to keep fumes and gases from your breathing zone and the general area.
- Wear correct eye, ear, and body protection.
- Do not touch live electrical parts.
- See American National Standard Z49.1, *Safety in Welding, Cutting, and Allied Processes*, published by the American Welding Society, 550 N.W. LeJeune Road, Miami, Florida 33126; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402.

All statements, information and data given are believed to be accurate and reliable but are presented without guarantee, warranty or responsibility of any kind, expressed or implied.

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

9/01 DC