



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
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TECHNICAL SPECIFICATION SHEET

ISO 9002
 Cert. No. 31598

HARRIS SAFETY SILV® 40 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 39-41 %
 Zinc 27.5-31.5 %
 Copper 29.5-31.5 %
 Other Totals .15 %

PHYSICAL PROPERTIES:

Solidus	1250° (677°C)	Specific Gravity	9.12
Liquidus	1350°F (732°C)	Electrical Conductivity (% I.A.C.S.)	19.18
Color	Bright Shiny Light Yellow	Electrical Resistivity (Microhm-cm)	8.94
Density (Troy Oz./cu. In.)	4.76		

BRAZING PROPERTIES:

A cadmium free filler metal suitable for joining copper, copper alloys, and steel. It can also be used to braze stainless steel and nickel alloys. These alloys, however, are often used for corrosion applications or high temperature service, so suitability for the brazing alloy should be evaluated for the intended condition. Safety-Silv® 40 is a good replacement for hazardous cadmium bearing filler metals. Safety-Silv® 40 is a moderate temperature alloy with a medium plastic range. This characteristic makes it suitable for brazing assemblies with wider gaps.

AVAILABLE FORMS:

Standard wire diameters
 Preformed Rings
 Flux Coated Rods

SPECIFICATION COMPLIANCE:

The Harris Products Group Internal

RECOMMENDED FLUX:

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

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

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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.

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