



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 STAY BRITE® #8 SILVER BEARING SOLDER

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 SOLDER COMPOSITION:

Silver 5.5 – 6.0 %
 Tin Remainder

PHYSICAL PROPERTIES: Mechanical properties of bulk solder

| | | | |
|-------------------------|---------------------------|-----------------------------|---------------------------|
| Solidus | 430°F (221°C) | Electrical Conductivity | 16.6% IACS at 68°F (20°C) |
| Liquidus | 535°F (279°C) | Elongation in 2" | 49% |
| Color | Bright Shiny Silver | Tensile Strength (Cu to Cu) | 14,000 psi |
| Shear Strength | 10,600 psi | Shear Strength (Cu to Cu) | 10,600 psi |
| Temperature Coefficient | (32°F/0°C to 212°F/100°C) | Of Electrical Resistivity | 42.3 pW·m per K |

SOLDERING PROPERTIES:

Stay Brite #8 is recommended for use where regular Stay Brite is found to be too fluid. The 105°F difference in melt and flow point is desirable where the part fit-up requires an alloy with some plastic range.

AVAILABLE FORMS:

Standard wire diameters, Preformed rings

SPECIFICATION COMPLIANCE:

Harris Internal

RECOMMENDED FLUX:

Stay Clean Paste Flux, Stay Clean Liquid Flux (used with 4" or larger copper tubing also stainless steels) Bridgit Water Soluble Paste Flux

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

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