



TECHNICAL SPECIFICATION SHEET

J.W. HARRIS CO., INC.
4501 QUALITY PLACE
MASON, OHIO 45040
TEL. (513) 754-2000
FAX, (513) 754-8778
www.jwharris.com

ISO 9002
Cert. No. 31598

HARRIS STAY BRITE[®] SILVER BEARING SOLDER

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, Material Safety Data Sheet (MSDSs), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the flame, or both, 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, 550 N.W. LeJeune Road, Miami, Florida 33126; 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. J.W. Harris Co., Inc. and its affiliates shall have no liability in respect thereof.

NOMINAL COMPOSITION:

Silver	3.4-3.8 %
Tin	Remainder

PHYSICAL PROPERTIES:

Color	Bright Silver
Solidus	430°F (221°C)
Liquidus	430°F (221°C)
Electrical Conductivity	16.4
Elongation	48%
Tensile Strength	14,000 psi
Shear Strength	10,600 psi



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SOLDERING PROPERTIES:

Stay Brite Silver Bearing Solder has excellent affinity to bond with all of the ferrous and non-ferrous alloys (including stainless steel, nickel, copper, brass, etc.). Has high elongation for sound metal joints and vibration applications.

AVAILABLE FORMS:

Standard wire diameters, Preformed rings, Paste

SPECIFICATION / CERTIFICATIONS COMPLIANCE: NSF 51

Federal Spec. QQ-S-571E, Class Sn 96 with exception to QPL para. 3.1; J-STD-006, Sn96Ag04A

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

J.W. Harris Co., Inc.
4501 Quality Place
Mason, Ohio 45040

Fax 513-754-8778
Tel. 513-754-2000
800-733-4533

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Additional information available at our web site:

www.jwharris.com

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HARRIS STAY BRITE® #8 SILVER BEARING SOLDER

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

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- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheet (MSDSs), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the flame, or both, 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, 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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NOMINAL COMPOSITION:

Silver	5.5-6.0 %
Tin	Remainder

PHYSICAL PROPERTIES: (95Sn-5Ag)

Color	Bright Shiny Silver
Solidus	430 °F (221°C)
Liquidus	535 °F (279°C)
Electrical Conductivity	16.6 % IACS AT 68 °F(20°C)
Elongation in 2"	49%
Tensile Strength (Cu to Cu)	14,000 psi
Shear Strength (Cu to Cu)	10,600 psi
Electrical resistivity	104 nW·m at 32 °F (0°C)
Temperature coefficient of electrical resistivity	(32°F/0°C to 212°F/100°C) 42.3 pW·m per K

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HARRIS STAY BRITE® #8 SILVER BEARING SOLDER

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:

J.W. 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

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