



# TECHNICAL SPECIFICATION SHEET

## 30/70 TIN-LEAD SOLDER

J.W. HARRIS CO., INC.  
4501 Quality Place  
Mason OH 45040-1971

ISO 9002  
Cert. No. 31598

### SOLDERING PROPERTIES: 30/70 TIN-LEAD SOLDER

The tin-lead solder group constitutes the largest portion of solders in use. Used as an automobile body solder and for removing heat-strippable insulation during high temperature (700-900°F) tinning of wires. With some exceptions, the tin-lead solders can be used to solder copper and most copper alloys, lead, high nickel alloys, and steel. Tin-lead solders are not recommended in high stress or vibration joints in the cooling industry due to lack of sufficient elongation properties. Heat sources include soldering guns, irons, and torch applications. **\*Lead bearing solders are not to be used in potable water systems.**

#### Safety Information:

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 (MSDS) 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.

*For technical support and product information, visit our web site at [www.jwharris.com](http://www.jwharris.com).*



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### NOMINAL SOLDER COMPOSITION:

Tin	29.5 – 31.5%
Lead	Remainder

### PHYSICAL PROPERTIES: Mechanical properties of bulk solder

Solidus	361°F(183°C)	Liquidus	491°F(255°C)
Color	Gray Silver	Density	9.80 g/cm <sup>3</sup>

### AVAILABLE FORMS:

Standard wire diameters

### SPECIFICATION COMPLIANCE:

ASTM B32 Alloy Grade Sn 30A

### RECOMMENDED FLUX:

Stay Clean soldering fluxes are recommended except on electrical or electronic applications, which require the use of a rosin core solder or 505 neutral flux.

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*For technical support and product information, visit our web site at [www.jwharris.com](http://www.jwharris.com).*