

TECHNICAL DATA SHEET

KESTER® AW FLUX

For Lead-free and Leaded Alloys

DESCRIPTION

Kester AW is a highly active inorganic acid type of flux developed for industrial soldering applications where a flux-cored solder wire is desirable. Rapid soldering can be accomplished on all common metals except aluminum and manganese. AW flux is particularly useful for soldering excessively oxidized metals. AW core flux possesses excellent thermal stability to function under prolonged high temperature conditions as with torch or flame soldering. It is not recommended for electrical or electronic soldering applications due to the corrosive nature of the residue

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- Solders excessively oxidized materials
- Not for aluminum or manganese
- Excellent thermal stability
- Compatible with leaded and lead free alloys
- Classified as INH1 per J-STD-004

ROHS COMPLIANCE

This product meets the requirements of the RoHS (Restriction of Hazardous Substances) Directive, 2002/95/EC Article 4 for the stated banned substances. (Applies only if this core flux is combined with a lead-free alloy.)

Suggested Alloys

50/50 - Tin/Lead

General purpose: For non-electrical applications such as galvanized gutters, sheet metal, radiator repair and stained glass soldering.

95/5 - Tin/Antimony

General purpose: For joining copper tubing in air-conditioning and refrigeration equipment. Also for soldering copper pipe and fittings for drinking water systems.





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PROCESSING GUIDELINES

Process Considerations

Solder iron tip temperatures are most commonly between 371 to 400 °C (700 to 750 °F) for lead-free alloys and 315 to 343 °C (600 to 65 0°F) for leaded alloys. Heat both the land area and component lead to be soldered with the iron tip prior to applying the solder wire to land area or component lead. To maximize tip life and reduce solder spattering, do not feed wire directly to iron tip.

Additional liquid flux should only be used as a last resort. Any flux applied to the solder location should be kept to the area of the connection being reworked. If needed, Kester 1630 Inorganic Acid Flux may be used as a compatible liquid flux to aid in enhancing solderability of soldered joints.

Cleaning

AW possesses excellent fluxing ability, however, flux residue after soldering is hygroscopic and corrosive. The work should be allowed to cool undisturbed until the solder solidifies. The flux residue is then removed with a hot water rinse.

For more thorough cleaning requirements, rinse with a 2 to 10% solution of Kester 5760 Neutralizer followed by a thorough hot water rinse. Please contact your local Technical Support for further information.

Storage, Handling and Shelf Life

Storage must be in a dry, non-corrosive environment between 10 to 40 °C (50 to 104 °F). The surface may lose its shine and appear a dull shade of grey. This is a surface phenomenon and is not detrimental to product functionality. Flux-cored solder wire has a limited shelf life determined by the alloy used in the wire. For alloys containing more than 70% lead, the shelf life is 2 years from the date of manufacture. Other alloys have a shelf life of 3 years from the date of manufacture.

AVAILABILITY

AW is available in a wide variety of alloys, wire diameters, flux percentages and roll sizes in both leaded and lead free alloys.

The standard wire diameter for most applications is 0.8 mm (0.031 in). Wire diameters range from 0.8 to 2.5 mm (0.031 to 0.093 in). The amount of flux in the wire dictates the ease of soldering for an application. For most applications 3.3% flux by weight is recommended. Kester AW is packaged on spools of different sizes to accommodate a variety of applications.





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For other alloys and flux percentages, please contact Customer Service.

RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area.



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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