

ALPHA® FLUITIN 1532

No Clean, Flux Cored, Wire Solder

J-STD-004-ROM1/ IPC-TM-650 2.6.3.3 / ISO 1224-1.1.2 / DIN 8511-F-SW26

DESCRIPTION

ALPHA Fluitin 1532 is an activated rosin cored solder wire developed for general hand soldering applications. The unique activator system offers good thermal stability at pre-soldering temperatures ensuring that **ALPHA Fluitin 1532** performs extremely well on parts and surfaces which present poor or difficult soldering conditions.

ALPHA Fluitin 1532 leaves post-soldering residues that are hard and which can be safely left without the need to remove them. If the removal of residues is required, then semi-aqueous or aqueous systems can be used effectively.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

Features	Benefits
Very fast wetting	Low cycle times for component touch-up and manual assembly
Good spread characteristics	Excellent solder joints
Pleasant pine smell	Operator friendly
Clear and safe residue	No-clean residues, useful for all applications
Provides good joint appearance	Makes inspection easy

ALPHA Fluitin 1532 is suitable for use in any commercial no-clean hand soldering application that specifies compliance to J-STD-004 – ROM1 standard. It is suited to such areas of industry (subject to the above criteria) as TV, Audio equipment, Video/DVD, Games box and all types of household appliances.

PRODUCT INFORMATION

Standard	Alloy Designation	Melting or Solidus / Liquidus Temp °C	Flux Amount
ISO 9453	SAC305	217 / 221	2.2% & 3.3%
Proprietary	SACX Plus® 0307	217 / 228	2.2% & 3.3%
ISO 9453	Sn99/Cu1	227 / ~235	2.2% & 3.3%
ISO 9453	Sn50/Pb50	183 to 216	2.2%
ISO 9453	Sn60/Pb40	183 to 190	1.4% & 2.2%
ISO 9453	Sn60/Pb38/Cu2	183 to 190	1.1% & 2.2%
ISO 9453	Sn62/Pb36/Ag2	178 to 190	2.2%
ISO 9453	Sn63/Pb37	183	1.1% & 2.2%

* Flutitin 1532 may also be available in other alloys and flux amounts on request.

APPLICATION GUIDELINES

A soldered joint is formed by heating the parts to be soldered to a temperature in excess of the melting point of the alloy to be used – in hand soldering this is how a soldering iron is used. By feeding the cored wire onto the parts, the flux is able to flow and remove oxidized metal, while the solder creates a thin inter-metallic bond which becomes the solder joint. ALPHA Flutitin 1532 is also ideal for robotic soldering applications.

Note the following tips:

- Use a soldering iron tip size and form to suit the operation: small tips for soldering large components may prevent the formation of a joint or slow the process down.
- Select a solder wire diameter to suit both the soldering iron tip and the parts/components to be soldered.
- Soldering iron systems should provide sufficient heat to satisfy the requirements of the points above.
- A typical solder tip temperature would be between 120 °C and 160 °C above the liquidus temperature of the alloy. The ideal temperature to use is dependant on how thermally demanding the assembly is.
- Cored solder wires can be provided in different grades of alloy so always ensures that you have selected the right grade for the application.

- Do not overheat as this causes an increase in the depth of the inter-metallic layer, which in turn weakens the joint.

If you choose to use a liquid rework flux, ALPHA 615 Flux is recommended to maintain high electrical reliability. ALPHA 615 flux is available in ALPHA's 'Write Flux Pens' for precision flux application.

TECHNICAL DATA

Physical Properties	Typical Values
Rosin grade	WW per Fed Spec. LL-R-626
Rosin Softening Point	71 °C (160 °F)
Acid Value	170 to 190 mg KOH/g flux (IPC-TM-650-2.3.13)
Halide Content	0.80 to 1.10% weight (IPC-TM-650-2.3.28.1)
Copper Mirror	<50% breakthrough per IPC J-STD-004A
Classification	ROM1 per IPC J-STD-004A ISO 12224 – 1.1.2. Din 8511 – F – SW26

Electrical Reliability Test	Requirements	Results
IPC SIR Testing (J-STD-004A)	$1.0 \times 10^8 \Omega$ minimum	PASS

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 at AlphaAssembly.com**

STORAGE

ALPHA Cored Solder Wires should be stored in dry conditions and within a temperature range of 0 to 40 °C. Alpha guarantees the product shelf life for three years from the date of manufacture when stored in the recommended conditions.

CONTACT INFORMATION

**To confirm this document is the most recent version, please contact
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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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