

Technical Bulletin



Solder plus Support

CX18 2.5% No Clean Cored Wire Solder

DESCRIPTION

CX18 is a no clean flux core wire solder designed to offer excellent soldering results with all alloys and on all surface finishes. Engineered for high operator satisfaction CX18 is a low odor/smoke formula which promotes thermal transfer, and fast wetting without the need for additional flux. CX18 post solder residues are minimal, clear and pass IPC-004A and IPC-004B SIR and corrosion requirements.

FEATURES AND BENEFITS

- Fast Wetting
- Minimal/Clear Residue Extends
- Solder Tip Life
- ROL0 per IPC J-STD-004
- REACH and RoHS Compliant*
- Low Odor / Fumes

ALLOY AVAILABILITY

CX18 is available in multiple lead-free alloys. Available in High Reliability alloys REL22™ and REL61™, alongside standard lead-free alloys SAC305 and SN100C. Additional alloys and diameters may be available upon request.

CX18 is available in AIM 's High Reliability Lead-Free Alloys, REL61™ and REL22™. These have been developed to meet the demands of an evolving solder market. Greater durability, lower costs and lower processing temperature are key drivers and AIM REL61 and REL22 provide assemblers with new tools to improve product quality in the assembly process. REL alloys have demonstrated reduced tin whisker formation as well as outperforming SAC alloys in thermal shock, vibration and drop shock resistance, making these alloys the ideal choice for all electronics applications.

APPLICATION

Best results are obtained with a properly sized solder iron tip at a temperature between 300° - 400°C (575° - 750°F) for leaded alloys and 370° - 425°C (700° - 800°F) for lead-free alloys. If additional flux is required AIM NC280 liquid flux or NC217 gel flux are recommended.

CLEANING

CX18 can be cleaned with commercially available flux removers. IPA is not recommended. Contact AIM for specific information.

STORAGE & SHELF LIFE

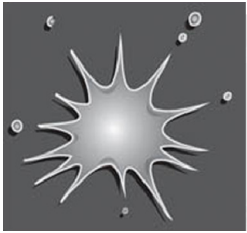
Store cored wire in a clean, dry area away from moisture and sunlight. Do not freeze this product.

Time	Parameters
7 Years	< 85°F (< 29°C)

HEALTH & SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

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SOLDER CONNECTION

Email: sales@solderconnection.co.uk | Tel: +44(0)1291 624 400

TEST DATA SUMMARY

Name	Test Method	Results	
IPC Flux Classification	J-STD-004	ROL0	
IPC Flux Classification	J-STD-004B 3.3.1	ROL1	
Name	Test Method	Typical Results	Image
Copper Mirror	J-STD-004B 3.4.1.1 IPC-TM-650 2.3.32	LOW	
Corrosion	J-STD-004B 3.4.1.2 IPC-TM-650 2.6.15	PASS	
Quantitative Halides	J-STD-004B 3.4.1.3 IPC-TM-650 2.3.28.1	0.09% Typical	
Qualitative Halides, Silver Chromate	J-STD-004B 3.5.1.1 IPC-TM-650 2.3.33	PASS	
Qualitative Halides, Fluoride Spot	J-STD-004B 3.5.1.2 IPC-TM-650 2.3.35.1	No Fluoride	PASS
Surface Insulation Resistance	J-STD-004B 3.4.1.4 IPC-TM-650 2.6.3.7	PASS	
Acid Value Determination	J-STD-004B 3.4.2.2 IPC-TM-650 2.3.13	156 mg KOH/g flux Typical	

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