

Excellent Integrated System Limited

Stocking Distributor

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[Kester](#)
[04-6337-0050](#)

For any questions, you can email us directly:
sales@integrated-circuit.com



Ultrapure® High Reliability Extruded Bar Solder

Lead-bearing and Lead-free alloys

Product Description

For soldering applications which require maximum reliability of solder joints, especially for surface mounted components, only solder of the highest purity is acceptable. Kester does not make any vague claims of outstanding solder purity. Complete analysis of Kester Ultrapure® Bar Solders prove that every batch conforms to the strictest quality control standards in the solder industry.

Maximum Allowed Impurities

Kester Ultrapure® Bar Solder substantially exceeds the requirements of current industry standards for allowable impurity requirements.

Element	J-STD-006B	Kester E-Bar	Kester Ultrapure®	Ultra Low Dross	Ultrapure® HAL
Copper	0.080	0.020	0.015	0.015	0.001
Gold	0.050	0.002	0.002	0.002	0.001
Antimony	0.050	0.050	0.050	0.050	0.010
Cadmium	0.002	0.001	0.001	0.001	0.001
Zinc	0.003	0.001	0.001	0.001	0.001
Aluminum	0.005	0.002	0.002	0.002	0.001
Iron	0.020	0.010	0.010	0.010	0.003
Arsenic	0.030	0.020	0.020	0.020	0.001
Bismuth	0.100	0.025	0.020	0.020	0.003
Silver	0.100	0.003	0.002	0.002	0.001
Nickel	0.010	0.002	0.002	0.002	0.001
Indium	0.100	0.007	0.007	0.007	0.002
Lead	0.100	0.050	0.050	0.050	0.050

Kester Ultrapure® will conform to these requirements when purchased directly or through stocking distributors. Only the highest purity virgin metals are used to make Kester Ultrapure®. Kester is the only manufacture of Ultrapure® quality solder. Kester Ultrapure® meets or exceeds Industry Specification ASTM B32. Kester Ultrapure® conforms to the requirements of J-STD-006 formerly QQ-S-571F. DOD-STD-2000-1A (Soldering Technology, High Quality/High Reliability) states that it is the responsibility of the manufacturer to select those materials and processes that will produce acceptable high quality/high reliability products.

Available Alloys

	Melting Point
Lead-bearing	
Sn63Pb37	183°C (361°F)
Sn60Pb40	183-190°C (361-374°F)
Lead-free	
K100	~227°C (441°F)
Sn96.5Ag3.5	221°C (430°F)
Sn96.5Ag3.0Cu0.5	217-220°C (423-428°F)
Sn95.5Ag3.8Cu0.7	217-221°C (423-430°F)
Sn99.3Cu0.7	227°C (441°F)
Sn100	232°C (450°F)

Storage and Shelf Life:

Kester Ultrapure® solder has no limited shelf life when handled properly. Storage must be in a dry, non-corrosive environment. The solder surface may lose its shine and appear a dull shade of gray. This is a surface phenomenon and is not detrimental to product functionality.

Health & Safety:

This product, during handling or use, may be hazardous to health or the environment. Read the Material Safety Data Sheet and warning label before using this product.

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