

HIGH PURITY LEAD-FREE SOLDER ALLOYS...

for Metal Joining in Industrial Manufacturing Applications

NATHAN TROTTER BAR SOLDER



GENERAL DESCRIPTION

Nathan Trotter & Co., Inc. is a manufacturer and producer of high quality bar solder alloys for use in industrial, automotive, heat transfer and other manufacturing applications. NT Solder Bar comes in both traditional tin/lead compositions and ROHS compliant Lead-Free solders. Only high purity virgin metals are used in NT Solders including virgin Grade A Tin with 99.95% min. purity, Copper of 99.99%, Nickel with 99.99%, and Lead with 99.99% purity. Our alloys are manufactured to exceed the purity requirements outlined in the IPC J-STD-006 and ASTM B32-08 standard as well as other international standards and proprietary customer specifications.

QUALITY ASSURANCE

Consistent purity levels and strict adherence to our customers' product specifications are among our top priorities. We have our own in-house analytical capability and provide a certificate of analysis with each one of our shipments. Nathan Trotter has been ISO 9001:2008 registered since 1997.

NT Solder Bar has demonstrated success and compatibility in Hot-Air Leveling, Reflow, and Wave Soldering processes and machinery manufactured by **Avalon, Penta, Teledyne Halco, Cemco, Gyrex, and Lantronic, Electrovert, Dover, Specnor, Teamco, Mancorps, Koki**

FEATURES

- Bright and shiny surface appearance
- High Fluidity and Solderability
- Minimal oxidation, which results in higher yields, increased productivity, and lower reject rates

LEAD TIME & DELIVERY

Substantial inventories of standard bar solder alloys are kept in stock at our facility in Coatesville, PA in order to provide typical next day shipping to customers

COMPLIMENTARY SOLDER POT ANALYSIS

Nathan Trotter offers a complimentary Solder Pot analysis using state-of-the-art analytical equipment on the premises.

TYPICAL ANALYSIS OF NT SOLDER ALLOYS

ELEMENT	TRADITIONAL 95Sn/5Sb	LEAD-FREE (Sn99)	SAC 305 LEAD-FREE
Tin- Sn	94.50 - 95.50	99.92 +/- 0.30	96.50 +/- 0.30
Copper- Cu	<0.08	>0.800	0.500 +/- 0.30
Silver- Ag	<0.015	<0.001	3.00 +/- 3.00
Nickel- Ni	<0.001	<0.030	<0.001
Lead- Pb	<0.20	<0.020	<0.020
Antimony- Sb	4.50 - 5.50	<0.030	<0.030
Bismuth- Bi	<0.005	<0.005	<0.005
Iron- Fe	<0.01	<0.002	<0.002
Zinc- Zn	<0.001	<0.001	<0.001
Aluminum- Al	<0.001	<0.001	<0.001
Arsenic- As	<0.005	<0.001	<0.001
Cadmium- Cd	<0.001	<0.001	<0.001
Indium- In	<0.001	<0.001	<0.001

PHYSICAL PROPERTIES OF VARIOUS SOLDERS

PROPERTIES	TRADITIONAL 95Sn/5Sb	LEAD-FREE (Sn99)	SAC 305 LEAD-FREE
Melting Point	233-240 °C	227 °C	217 °C
Operating Temp	255 °C	255 °C	265 °C
Density	7.20 g/cu ³	7.31 g/cu ³	7.40 g/cu ³

PACKAGING

- 1, 5 lb, or 1kg bars packed in 50 lb boxes, 250, 500 lb drums
- 7 lb, 15 lb or 25 lb ingots- palletized, banded & shrink wrapped
- Bars stamped with lot number or other requested identification
- Custom size bars and packaging are available upon request
- Certificate of Analysis provided with each shipment

NT CAN RECYCLE YOUR SOLDER SCRAP

Nathan Trotter offers a buy-back schedule which enables our customers to sell back your solder dross & scrap. We offer our customers fair and reasonable market values in addition to prompt settlements or credits.

NATHAN TROTTER IS ISO 9001 : 2008 REGISTERED

241 West Stewart Huston Drive • Coatesville, PA. 19320
Tel#: (215) 821-8461 • Fax#: (215) 701-0807 • www.nathantrrotter.com



Nathan Trotter & Co.
Non-Ferrous Metals

For quotes, orders or technical assistance call (215) 821-8461
Daryl Williams
daryl@nathantrrotter.com