

TIN, LEAD, NICKEL, ANTIMONY, BISMUTH, SILVER... and Other High Purity Non-Ferrous Metals

NATHAN TROTTER VIRGIN METALS



GENERAL DESCRIPTION

Nathan Trotter & Company, Inc. is the oldest continuously operated metals manufacturer/distributor in the United States. We manufacture a wide variety of non-ferrous metal products and alloys with a primary emphasis on tin and tin-based alloys. NT products are engineered and produced using 100% virgin base metals and certified to meet industry standards as well as customer specifications. This insures our customers receive a quality alloy that is consistent each and every order. A complete certificate of analysis from our state-of-the-art laboratory is provided with every shipment. Please contact us for all of your non-ferrous metal requirements.

NT PRODUCTS (PURE METALS)

- Tin- cast bars/ingots, extruded anodes, anode balls, chunks, shot, mossy, wire, powders
- Antimony- slab, shot, powder
- Nickel Anodes- s rounds, r rounds, pellets, squares, ovals, d crowns, chips, screened pellets
- Silver- anodes, bars, cones, shot
- Bismuth- slabs, shot, pellets
- Lead- bars/ingots, anodes, pigs, shot, wire
- Copper- cathode, bars, anodes, balls, chunks, chops
- Zinc- balls, anodes, bars, shot, waffles

NT PRODUCTS (ALLOYS)

- Babbitt Metal Alloys- bar/ingot, wire, powder
- Anodes- cast & extruded bars, stars, ovals, balls, chunks
- Solder Alloys- cast & extruded bars, wire, paste, powders
- Galvanizing Alloys- cast bars, patch sticks, meter bar
- Pewter Alloys- bar/ingot, wire
- Lead-Free Alloys- bar/ingot, wire, paste, powder
- Fusible Alloys- bar/ingot, pucks, wire
- Jewelry Alloys- bar/ingot, wire
- Brass/Bronze- bar/ingot, balls, chunks
- Lead Alloys- bar/ingot, pig, wire

Custom anodes are also fabricated according to specification

TYPICAL ANALYSIS OF NT HIGH PURITY METALS

ELEMENT	GRADE A TIN INGOT	VIRGIN ANTIMONY	INCO NICKEL S ROUNDS	HIGH PURITY SILVER
Tin- Sn	99.952	<0.004	<0.005	<0.001
Lead- Pb	<0.0143	<0.20	<0.0003	<0.001
Antimony- Sb	<0.0195	99.80 min	<0.005	<0.001
Copper- Cu	<0.0042	<0.05	<0.001	<0.01
Zinc- Zn	<0.0004	<0.005	<0.0003	—
Iron- Fe	<0.0011	<0.03	<0.0004	<0.001
Aluminum- Al	<0.0004	—	<0.001	—
Arsenic- As	<0.0009	<0.05	<0.001	—
Cadmium- Cd	<0.0002	<0.0003	<0.001	<0.0001
Bismuth- Bi	<0.0019	<0.005	<0.001	<0.001
Silver- Ag	<0.0002	—	<0.001	99.93 min
Nickel + Cobalt	<0.0001	—	99.97 min	—
Sulfur- S	<0.0001	<0.06	0.023	<0.0001

PHYSICAL PROPERTIES OF NT METALS

PROPERTIES	TIN	ANTIMONY	NICKEL	SILVER
Melting Point	450°F 232 °C	1166°F 630°C	2645°F 1452°C	1761°F 960°C
Boiling Point	4118°F 2270°C	2624°F 1440°C	5252°F 2900°C	3634°F 2001°C
Weight (lbs/in ³)	0.264 lbs/in ³	0.239 lbs/in ³	0.322 lbs/in ³	0.380 lbs/in ³
Density	7.30	6.62	8.90	10.50
Linear Expansion	0.000013	0.000063	0.000076	0.0000105

PACKAGING

NT Products come in a wide variety of cast bars/ingots and extruded shapes. Please contact us to discuss your specific requirements.

LEAD TIME & DELIVERY

Lead time for most orders is less than one week. To meet the needs of rush orders, sufficient inventories are kept in stock at our facility to provide typical next day shipping.

NT CAN RECYCLE YOUR DROSS AND SCRAP

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

METAL ANALYSIS AND SAMPLING

Nathan Trotter has an in-house lab that is available to analyze pot samples or to assist when casting issues arise. Result are typically returned in 1-2 days.

NATHAN TROTTER IS ISO 9001 : 2008 REGISTERED

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