

# PEWER & WHITE METAL CASTING ALLOYS...

## for Pewterware, Figurines, Models & Gaming Accessories

### NATHAN TROTTER WHITE METALS



#### GENERAL DESCRIPTION

Nathan Trotter & Co., Inc. manufactures & produces White Metal Casting Alloys for use in figurines, models & gaming in addition to Fine Pewter & Jewelry Alloys. NT White Metals come in the traditional tin/antimony/zinc (lead-free) alloys as custom alloys designed specifically for the product or casting that is being crafted. Only high purity virgin metals are used in NT Pewter including virgin Grade A (Low-Lead) Tin with 99.9% minimum purity, Antimony with 99.9%, and Zinc with 99.99% purity. NT White Metal Alloys are manufactured to exceed the purity requirements outlined in ASTM B560-00 standard as well as other relevant international standards.

Nathan Trotter White Metals are currently being supplied to some of the largest and most specialized manufacturers and craftsmen in the world. No order too small or large.

#### FEATURES

- Minimal oxidation, which results in higher yields, increased productivity, and lower dross loss
- Surface appearance to customer's design: shiny, traditional pewter, dull
- Custom developed alloys to suit customer's requirements

#### PACKAGING

- 1 lb. or 5 LB. notch bars
- 50 lb boxes
- Each box is secured with plastic banding
- Boxes are neatly stacked and secured on pallets
- Certificate of analysis is provided with each shipment

#### LEAD TIME & DELIVERY

Lead time for most orders is less than one week. To meet the needs of smaller customers and rush orders, inventories of traditional white metal alloys are kept in stock at our facility in order to provide typical next day shipping.

#### CHEMICAL COMPOSITION OF ALLOYS

ELEMENT	TRADITIONAL PB-FREE PEWTER 92Sn/7.5Sb/.5Cu (BRITANNIA)	CUSTOM CASTING PEWTER ALLOY 97Sn/2.5Bi/.5Cu (LEAD-FREE)	MODEL CASTING WHITE METAL 95Sn/3Sb/2Zn (LEAD-FREE)	ZINC BASED PEWTER METAL (CUSTOM ALLOY) (LEAD-FREE)
Tin	Balance	Balance	Balance	<0.001
Copper	0.50	0.50	<0.05	3.00
Silver	<0.001	<0.001	<0.001	<0.001
Nickel	<0.001	<0.001	<0.001	<0.001
Lead	<0.10	<0.10	<0.05	<0.001
Antimony	7.50	<0.20	3.00	Custom
Bismuth	<0.003	2.50	<0.01	<0.001
Iron	<0.002	<0.002	<0.005	<0.05
Zinc	<0.001	<0.001	2.00	93.00 min
Aluminum	<0.001	<0.001	<0.002	3.00
Arsenic	<0.001	<0.001	<0.05	<0.001
Cadmium	<0.001	<0.001	<0.005	<0.001
Magnesium	<0.001	<0.001	<0.005	0.60

#### PHYSICAL PROPERTIES OF PEWTER ALLOYS

PROPERTIES	TRADITIONAL PB-FREE PEWTER 92Sn/7.5Sb/.5Cu	CUSTOM CASTING PEWTER ALLOY 97Sn/2.5Bi/.5Cu	HIGH GRADE PEWTER ALLOY 97Sn/2.5Bi/.5Ag	ZINC BASED PEWTER METAL (CUSTOM ALLOY)
Casting Range	500-550 °F	500-600 °F	500-550 °F	650-750 °F
Density	0.217 lbs/in <sup>3</sup>	0.2367 lbs/in <sup>3</sup>	0.2658 lbs/in <sup>3</sup>	0.2538 lbs/in <sup>3</sup>

#### NT CAN RECYCLE YOUR DROSS AND SCRAP

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

#### WHITE METAL ANALYSIS AND SAMPLING

Nathan Trotter has a state-of-the-art in-house lab that is available to assist in helping to monitor your alloy or resolve casting issues. Customers can take full advantage of sending us samples in order to have us determine the consistency of their material once it is in use. Typical response on samples assays is 2-3 days upon receipt, sooner if necessary.

**NATHAN TROTTER IS ISO 9001 : 2008 REGISTERED**

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**Nathan Trotter & Co.**  
Non-Ferrous Metals

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