

FUSIBLE & LOW-MELTING TEMPERATURE ALLOYS... for Specialized Applications in Oncology, Optics & Patterns

NATHAN TROTTER FUSIBLE ALLOYS

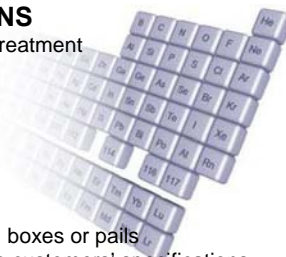


GENERAL DESCRIPTION

Nathan Trotter & Company, Inc. manufactures a wide variety of Fusible & Low Melting Alloys for use in Oncology, Patterns, Optics, Jewelry & other specialized applications. All NT Fusible Alloys are engineered and produced using 100% virgin base metals and certified to meet industry standards & customer specifications. All of our alloys are produced under rigid quality measures using high purity virgin Tin, Bismuth, Lead, Cadmium and Indium. 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 your Fusible Alloy needs.

FUSIBLE (LOW-MELT) APPLICATIONS

- Radiation Shielding for X-ray & Oncology Treatment
- Shielding Blocks Nuclear Medicine
- Lens Blocking
- Patterns & Die-Casting Applications
- Figurines & Jewelry Pattern Castings
- Wax Pattern Castings



PACKAGING

2 lb. pucks or 5 lb. notch bars packaged in 50 lb. boxes or pallets
All items are securely packaged and palletized to customers' specifications

LEAD TIME & DELIVERY

Lead time for most fusible/low-melt alloy orders is less than one week. To meet the needs of rush orders, inventories of traditional fusible alloys are kept in stock at Nathan Trotter in Coatesville, PA. to provide typical next day shipping.

NT CAN RECYCLE YOUR FUSIBLE ALLOY DROSS & SCRAP

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

FUSIBLE ALLOY ANALYSIS AND SAMPLING

Nathan Trotter has a state-of-the-art in-house lab that is available to assist in helping to monitor your fusible alloy or resolve casting issues. Customers can take full advantage of sending us pot 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.

PHYSICAL PROPERTIES OF COMMON FUSIBLE ALLOYS

PHYSICAL PROPERTIES	FUSIBLE ALLOY NT 117	FUSIBLE ALLOY NT 136	FUSIBLE ALLOY NT 147	FUSIBLE ALLOY NT 158	FUSIBLE ALLOY NT 255	FUSIBLE ALLOY NT 281
Melting Temperature °F	117 °F	136 °F	147 °F	158 °F	255 °F	281 °F
Melting Temperature °C	47 °C	58 °C	64 °C	70 °C	124 °C	138 °C
Density @ 20°C (g/cm ³)	8.86	8.57	9.46	9.38	10.27	8.72
Density @ 20°C (lbs/in ³)	0.32	0.31	0.342	0.339	0.371	0.315
Tensile Strength (lbs/in ²)	5,400	6,300	4,950	5,990	6,400	8,000
Elongation % 2 in	1.5	50	13.5	200	60.70	200
Brinell Hardness	12	14	11	9.20	10.20	22
Maximum Load (lbs/in ²)	—	—	—	10,000	8,000	15,000
Safe Load (sustained)	—	—	—	300	300	500
Electrical Conductivity	3.90	3.0	4.40	4.0	3.0	4.50
Specific Heat (Solid) (cal/g/°C)	0.035	0.032	0.039	0.040	0.03	—
Latent Heat of Fusion (cal/g)	—	—	—	6.67	4.50	—
Latent Heat of Fusion (btu/lb)	—	—	—	12	8.10	—

NATHAN TROTTER IS ISO 9001 : 2008 REGISTERED

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Nathan Trotter & Co.
Non-Ferrous Metals

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