

# TAM 3000 (90W-Ni-Fe)

## Product Datasheet



Tungsten Alloy

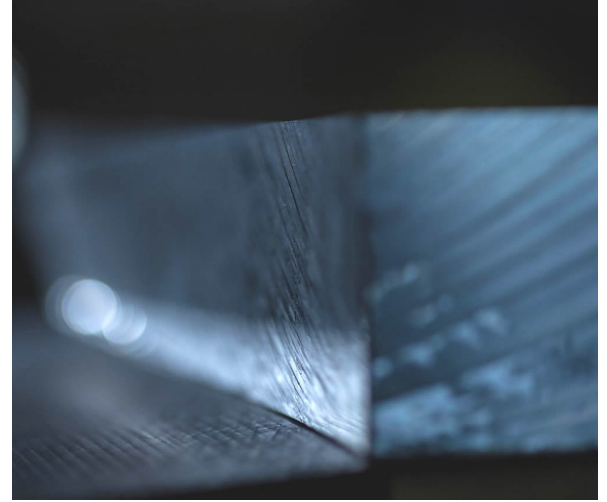
Service. Quality. Value.

### For dynamic balancing

TAM 3000 is used in the production of balance weights for aerospace applications.

TAM 3000 (90W-Ni-Fe) is a tungsten alloy containing 7% nickel and 3% iron. With a density of 17.05 gm/cm<sup>3</sup>, TAM 3000 finds use in applications where dynamic balancing is a requirement. The product is particularly useful in aerospace and motorsport applications, due to the alloys high density, making it easy to add weight without using large volumes.

The alloy is slightly magnetic and provides a tensile strength of 870N/mm<sup>2</sup>. With high strength and high resistance to thermal fatigue, TAM 3000 has numerous uses in engineering applications and is machinable to close tolerances.



#### Key Features

- High density alloy
- High strength
- Slightly magnetic
- Low thermal conductivity

#### Applications

- Dynamic balancing
- Balance weights
- Blade weights
- Anti-flutter weights and bucking bars

#### Chemical Composition (weight %)

	W	Ni	Fe
Min			
Max	90.0	7.0	3.0

#### Mechanical Properties

Density	Hardness	Ultimate Tensile Strength	Elongation	Magnetic Properties
17.05 gm/cm <sup>3</sup>	25 HRC	870 N/mm <sup>2</sup>	15%	Slightly magnetic

We stock TAM 3000 (90W-Ni-Fe) in plate.

#### UK Service Centres:

Smiths Belfast	02895 908 897	Smiths Leeds	0113 307 5167
Smiths Biggleswade	01767 604 704	Smiths Manchester	0161 794 8650
Smiths Birmingham	0121 728 4940	Smiths Norwich	01603 789 878
Smiths Bristol	0117 971 2800	Smiths Nottingham	0115 925 4801
Smiths Chelmsford	01245 466 664	Smiths Redruth	01209 315 512
Smiths Gateshead	0191 469 5428	Smiths Verwood	01202 824 347
Smiths Horsham	01403 261 981	Main Office	0845 527 3331

#### Quality & Testing:



www.smithmetal.com info@smithmetal.com

All information in our data sheet is based on approximate testing and is stated to the best of our knowledge and belief. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of trading.