TAM 3970 (97W-Ni-Fe)

Product Datasheet



Tungsten Alloy Service. Quality. Value.

Ballast & Balance Weight Solutions

TAM 3970 is ideal for applications where mass needs containment in a small space.

TAM 3970 (97W-Ni-Fe) is a tungsten alloy product containing 97% tungsten, 2.1% nickel and 09% iron. The alloy is slightly magnetic and has superior tensile strength (880N/mm²) when compared to TAM 1000, 3000 and 3950. The density of the material is even higher at 18.50 gm/cm³. The product is used as ballast and in balancing components. It is suitable for use in applications where a removable or permanent weight needs to be added to affect the centre of gravity. Aircraft, helicopters and the motorsport sector all make use of tungsten products in this way.

TAM 3970 also benefits from high resistance to thermal fatigue.



Key Features

- High-density alloy
- High strength
- High resistance to thermal fatigue
- Low thermal conductivity

Applications

- Ballast
- Balance weights
- For applications where mass needs containment in a small space

Chemical Composition (weight %)

	W	Ni	Fe
Min			
Max	97.0	2.1	0.9

Mechanical Properties

Density	Hardness	Ultimate Tensile Strength	Elongation	Magnetic Properties	
18.5 gm/cm ³	28 HRC	880 N/mm²	5%	Slightly magnetic	

We stock TAM 3970 (97W-Ni-Fe) in round bar.

UK Service Centres: Quality & Testing: Smiths Belfast 02895 908 897 Smiths Leeds 0113 307 5167 Smiths Biggleswade 01767 604 704 Smiths Manchester **0161 794 8650** ISO 9001 Smiths Birmingham 0121 728 4940 Smiths Norwich 01603 789 878 Smiths Nottingham 0115 925 4801 Smiths Bristol 0117 971 2800 Smiths Chelmsford 01245 466 664 Smiths Redruth 01209 315 512 Smiths Verwood 01202 824 347 Smiths Horsham 01403 261 981 Main Office www.smithmetal.com info@smithmetal.com 0845 527 3331