

Technical Data Sheet

Product Name: Tantalum Tungsten Alloy Products
Catalog No.: TA1729
Standard: ASTM B708, etc.
Size: Customized
Color: Grey
Grade R05252 (Ta-2.5W); R05255 (Ta-10W)



Specification

Form	Size	Purity
Sheet/Strip/Rod/Sputtering Target/Tube	Customized	≥99.95% 99.99%

Chemical Composition (% , Max.)

Element	C	O	N	H	Fe	Mo	Nb	Ni	Si	Ti	W
R05255	0.01	0.015	0.01	0.0015	0.01	0.02	0.1	0.01	0.005	0.01	9.0–11.0
R05252	0.01	0.015	0.01	0.0015	0.01	0.02	0.5	0.01	0.005	0.01	2.0–3.5

Properties

Properties	Unit	Value
Density	g/cm ³	16.9
Melting Point	°C	3035
Recrystallization Temperature	—	One hour at 2400–2800°F
Tensile Strength	psi	40,000-70,000
Elongation at break	%	30
Modulus of Elasticity	(GPa)	205-207
Electrical resistivity	μOhmcm	17.6

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