

Technical Data Sheet

Product Name: Titanium Wire
Catalog No.: TM0157
Standard: ASTM B863, ASTM F67
Size: Customized
Color: Grey
Grade: Grade 1, Grade 2, Grade 3, Grade 4



Specification

Form	Standard	Grade	Dia. (mm)	Surface
Wire	ASTM B863	Gr.1, Gr.2, Gr.3, Gr.4	Straight Wire: 1.0-5.0	Pickled;
	AWS 5.16	ERTi-1, ERTi-2, ERTi-5, ERTi-9	Coiled Wire: 0.5-5.0	Polished; customized upon request.

Chemical Composition (% Max.)

Element	N	C	H	Fe	O	Residuals	Ti
Grade 1	0.03	0.08	0.01	0.2	0.18	0.4	Bal.
Grade 2	0.03	0.08	0.015	0.25	0.25	0.4	Bal.
Grade 3	0.05	0.08	0.015	0.30	0.35	0.4	Bal.
Grade 4	0.05	0.08	0.015	0.50	0.40	0.4	Bal.

Properties

Properties	Unit	Value
Density	g/cm ³	4.51
Melting Point	°C	1670
Modulus of Elasticity	kN/mm ²	105-120
Thermal Conductivity	W/m-K	20
Elongation	%	18
Coefficient of Expansion (20 – 100°C)	µm/m °C	8.6
Yield Strength	MPa	379
Tensile Strength	MPa	448

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