

Titanium Round Bar Information

Titanium round bar dimensions: Diameter 3.0– 350 mm× Length \cong 6000mm

Titanium round bar diameter tolerance: h7~h13/H10~H13

(Customized specification accepted)

Chemical Requirements:

Grade	UNS	DIN	O	N	C	H	Fe	Element content (weight %, max.)	
Gr1	R50250	3.7025	0.18	0.03	0.08	0.015	0.2		
Gr2	R50400	3.7035	0.25	0.03	0.08	0.015	0.3		
Gr3	R50550	3.7055	0.35	0.05	0.08	0.015	0.3		
Gr4	R50700	3.7065	0.4	0.05	0.08	0.015	0.5		
Gr5	R56400	3.7164/5	0.2	0.05	0.08	0.015	0.4	Al 5.5-6.75	V 3.5-4.5
Gr6	R54520	3.7114	0.2	0.05	0.08	0.02	0.5	Al 4.0-6.0	Sn 2.0-3.0
Gr7	R52400	3.7235	0.25	0.03	0.08	0.015	0.3	Pd 0.12-0.15	
Gr9	R56320	3.7195	0.15	0.05	0.08	0.015	0.25	Al 2.5-3.5	V 2.0-3.0
Gr12	R53400	3.7105	0.25	0.03	0.08	0.015	0.3	Mo 0.2-0.4	Ni 0.6-0.9
Gr23	R56401	3.7145	0.13	0.03	0.08	0.0125	0.25	Al 5.5-6.75	V 3.5-4.5

Titanium Grade Tensile Requirements<bar>

Grade	Tensile Strength	Yield Strength 0.2%	Elongation	Reduction of area
	[MPa/Ksi]	[MPa/Ksi]	[%]	[%]
Gr1	240/35	138/20	24	30
Gr2	345/50	275/40	20	30
Gr3	450/65	380/55	18	30
Gr4	550/80	483/70	15	25
Gr5	895/130	828/120	10	25
Gr6	828/120	793/115	10	25
Gr7	345/50	275/40	20	30
Gr9	620/90	483/70	15	30
Gr12	483/70	345/50	18	25
Gr23	828/120	759/110	10	15