

Titanium Sheets Information

Titanium sheet/plate specifications

Grade	Specifications(mm)	Status	Standard
Gr1	(4.1~60)×(400~2000)×(1000~6000)	Hot Process	ASTM B265
Gr2			ASME SB265
Gr3			AMS 4911
Gr4			ASTM F67
Gr5			ASTM F136
Gr6	(0.3~6.0)×(400~1000)×(1000~3000) (0.02~0.3)×(50~1000)×<3000	Cold Process	ISO5832-2
Gr7			ISO5832-3
Gr9			And its related national standards
Gr11			
Gr12			
Gr23			

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 <Sheet>

Grade	Tensile Strength , min		Yield Strength,0.2% Offset				Elongation[min%]
	Ksi	Mpa	min		max		
			Ksi	Mpa	Ksi	Mpa	
Gr1	35	240	20	138	45	310	24
Gr2	50	345	40	275	65	450	20
Gr3	65	450	55	380	80	550	18
Gr4	80	550	70	483	95	655	15
Gr5	130	895	120	828	-	-	10
Gr6	120	828	115	793	-	-	10
Gr7	50	345	40	275	65	450	20
Gr9	90	620	70	483	-	-	20
Gr12	70	483	50	345	-	-	18
Gr23	120	828	110	759	-	-	10