

Chemical Compositions

Grade	Material Similar to..	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo
A2 / B8 A4 / B8M	AISI 304	0.08	2.00	0.05	0.030	1.00	17.00-20.00	8.0-13.0	---
	AISI 316	0.08	2.00	0.05	0.030	1.00	16.00-18.50	10.0-14.4	2.00-3.00

Physical Properties

Grade	Standard	Property Class	Tensile Strength Min. (N/mm ²)	Yield Strength 0.2% Offset Min. (N/mm ²)	Elongation After Fracture AL mm Min.
A2 & A4	ISO 3506	70	700	450	0.4d
		80	800	600	0.3d

Grade	Standard	Property Class	Diameter In.	Tensile Strength Min.(KSI)	Yield Strength 0.2% Offset Min. (KSI)	Elongation In 4D min.%	Reduction Of Area Min%	Hardness (Max.) Rockwell
B8 B8M	ASTM A193 /A193M	Class1 Class2	All	75	30	30	50	B96
			To 3/4	125	100	12	35	C35
			Over 3/4 to 1	115	80	15	35	C35
		Class1 Class2	All	75	30	30	50	B96
			To 3/4	110	96	15	45	C35
			Over 3/4 to 1	100	80	20	45	C35

Torsional Strength as Per ISO 3506

For Self Tapping Screw

Thread	ST 2.2	ST 2.6	ST 2.9	ST 3.3	ST 3.5	ST 3.9	ST 4.2	ST 4.8	ST 5.5	ST 6.3	ST 8
Min Torsional Strength Nm	0.45	0.9	1.5	2	2.7	3.4	4.4	6.3	10	13.6	30.5

For Austenitic Bolts and Screws M1.6 to M16 (Coarse Thread)

Thread	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16		
Min. Breaking Torque, Mbmin. --Nm	Property Class	70	0.20	0.4	0.9	1.6	3.8	7.8	13	32	65	110	290
		80	0.24	0.48	0.96	1.8	4.3	8.8	15	37	74	130	330

Note

- ⊗ Special Stainless Steel Grade available on request
- ⊗ We can develop product as per customer's specification/drawing
- ⊗ All austenitic stainless steel fasteners are normally non-magnetic; after cold working, some magnetic properties may be evident Please ref: ISO 3506-1 standard
- ⊗ Material Test Certificate is provided as per the EN 10204: 3.1B/3.1 standard