



# DELTA FASTENER CORP.

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Industrial  
Fasteners

## Fastener Material Grade Reference

The material grade list below is provided as an example. Delta Fastener Corp. will certainly quote you any material(s) grade you may require. Forward any material grade specification(s) for quote our sales department at [sales@deltafastener.com](mailto:sales@deltafastener.com)

Grade	Specification	Fastener Description	Material	Nominal Size Range	Proof Load	Yield Strength	Tensile Strength	Specification
Grade 1	SAE J429 Grade 1	Bolts, Screw, Studs	Low or Medium Carbon Steel	1/4 thru 1-1/2	33,000 psi.	36,000 psi.	60,000 psi.	SAE J429 Grade 1
Grades A & B	ASTM A307 Grade A & B	Bolts, Screws, Studs	Low Carbon Steel	1/4 thru 4			60,000 psi.	ASTM A307 Grade A & B
Grade 2	SAE J429 Grade 2	Bolts, Screws, Studs	Low or Medium Carbon Steel	1/4 thru 3/4, Over 3/4 to 1-1/2	55,000 psi. 33,000 psi.	57,000 psi. 36,000 psi.	74,000 psi. 60,000 psi.	SAE J429 Grade 2
Grade B6	ASTM A193 Grade B6	Bolts, Screws, Studs for high temperature service.	AISI 410	1/4 thru 4		85,000 psi.	110,000 psi.	ASTM A193 Grade B6
Grade B7	ASTM A193 Grade B7	Bolts, Screws, Studs for high temperature service.	AISI 4140, 4142 or 4145	1/4 thru 2-1/2, Over 2-1/2 thru 4, Over 4 thru 7		105,000 psi. 95,000 psi. 75,000 psi.	125,000 psi. 115,000 psi. 100,00 psi.	ASTM A193 Grade B7

Grade B8	ASTM A193 Grade B8	Bolts, Screws, Studs for high temperature service.	AISI 304	1/4 thru 2-1/2, Over 2-1/2 thru 4, Over 4 thru 7		30,000 psi.	75,000 psi	ASTM A193 Grade B8
Grade B8C	ASTM A193 Grade B8C	Bolts, Screws, Studs for high temperature service.	AISI 347	1/4 and Larger		30,000 psi.	75,000 psi	ASTM A193 Grade B8C
Grade BM	ASTM A193 B8M	Bolts, Screws, Studs for high temperature service.	AISI 316	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A193 B8M
Grade B8T	ASTM A193 Grade B8T	Bolts, Screws, Studs for high temperature service.	AISI 321	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A193 Grade B8T
Grade B8	ASTM A320 Grade B8	Bolts, Screws, Studs for low temperature service.	AISI 304	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A320 Grade B8
Grade B8C	ASTM A320 Grade B8C	Bolts, Screws, Studs for low temperature service.	AISI 347	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A320 Grade B8C
Grade B8T	ASTM A320 Grade B8T	Bolts, Screws, Studs for low temperature service.	AISI 321	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A320 Grade B8T
Grade B8F	ASTM A320 Grade B8F	Bolts, Screws, Studs for low temperature service.	AISI 303 OR 303Se	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A320 Grade B8F

Grade B8M	ASTM A320 Grade B8M	Bolts, Screws, Studs for low temperature service.	AISI 316	1/4 and Larger		30,000 psi.	75,000 psi.	ASTM A320 Grade B8M
Grade 5	SAE J429 Grade 5	Bolts, Screws, Studs	Medium Carbon steel, Quenched and Tempered	1/4 thru 1, Over 1 thru 1-1/2	85,000 psi. 74,000 psi.	92,000 psi. 81,000 psi.	120,000 psi. 105,000 psi.	SAE J429 Grade 5
Grade 5	ASTM A449	Bolt, Screws, Studs	Medium Carbon steel, Quenched and Tempered	1/4 thru 1, Over 1 thru 1-1/2, Over 1- 1/2 thru 3				ASTM A449
Grade A325	ASTM A325 Type 1	High Strength Structural Bolts	Medium Carbon steel, Quenched and Tempered	1/2 thru 1, 1-1/8 thru 1-1/2	85,000 psi. 74,000 psi.	92,000 psi. 81,000 psi.	120,000 psi. 105,000 psi.	ASTM A325 Type 1
Grade A325 Type 2	ASTM A325 Type 2	High Strength Structural Bolts	Medium Carbon steel, Quenched and Tempered	1/2 thru 1	85,000 psi.	92,000 psi.	120,000 psi.	ASTM A325 Type 2
Grade A325 Type 3	ASTM A325 Type 3	High Strength Structural Bolts	Atmospheric Corrosion Resisting Steel, Quenched and	1/2 thru 1, 1-1/8 thru 1-1/2	85,000 psi. 74,000 psi.	92,000 psi. 81,000 psi.	120,000 psi. 105,000 psi.	ASTM A325 Type 3
Grade BB	ASTM A354 Grade BB	Bolts, Studs	Alloy Steel, Quenched and Tempered	1/4 thru 2-1/2, 2-3/4 thru 4	80,000 psi. 75,000 psi.	83,000 psi. 78,000 psi.	105,000 psi. 100,000 psi.	ASTM A354 Grade BB
Grade BC	ASTM A354 Grade BC	Bolts, Studs	Alloy Steel, Quenched and Tempered	1/4 thru 2-1/2, 2-3/4 thru 4	105,000 psi. 95,000 psi	109,000 psi. 99,000 psi.	125,000 psi. 115,000 psi.	ASTM A354 Grade BC

Grade 7	SAE J429 Grade 7	Bolts, Screws	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 thru 1-1/2	105,000 psi.	115,000 psi.	133,000 psi.	SAE J429 Grade 7
Grade 8	SAE J429 Grade 8	Bolts, Screws, Studs	Alloy Steel, Quenched and Tempered	1/4 thru 1-1/2	120,000 psi.	130,000 psi.	150,000 psi.	SAE J429 Grade 8
Grade BD	ASTM A354 Grade BD	Bolts, Screws, Studs	Medium Carbon Alloy Steel, Quenched and Tempered	1/4 thru 1-1/2	120,000 psi.	130,000 psi.	150,000 psi.	ASTM A354 Grade BD