



STAINLESS STEEL BOLTS & NUTS PROOF AND TENSILE STRENGTHS



MECHANICAL REQUIREMENTS FOR STAINLESS STEEL BOLTS, SCREWS, STUDS AND NUTS

Grade ¹	General Description	Mechanical Requirements							
		Bolts ¹ Screws And Studs					Nuts		
		Full Size Bolts, Screws, Studs		Machined Test Specimens Of Bolts, Screws, Studs					
		Yield ² Strength min ksi	Tensile Strength min ksi	Yield ² Strength min ksi	Tensile Strength min ksi	Elongation ³ % Min	Hardness Rockwell Min	Proof Load Stress ksi	Hardness Rockwell Min
303-A	Austenitic Stainless Steel Sol. Annealed	30	75	30	75	20	B75	75	B75
304-A	Austenitic Stainless Steel Sol. Annealed	30	75	30	75	20	B75	75	B75
304	Austenitic Stainless Steel Cold Worked	50	90	45	85	20	B85	90	B85
305-A	Austenitic Stainless Steel Sol. Annealed	30	75	20	75	20	B70	75	B70
305	Austenitic Stainless Steel Cold Worked	50	90	45	85	20	B85	90	B85
316-A	Austenitic Stainless Steel Sol. Annealed	30	75	30	75	20	B70	75	B70
316	Austenitic Stainless steel Sol. Annealed	50	90	45	85	20	B85	90	B85
316-SH	Austenitic Stainless Steel Strain Hardened	See Note 6	See Note 6	See Note 6	See Note 6	15	C25	See Note 6	C20
410-H	Stainless Steel Hardened and Tempered	95	125	95	125	20	C22	125	C22
410-HT	Martensitic Stainless Steel Hardened and Tempered	135	180	135	180	12	C36	180	C36
416-H	Martensitic Stainless Steel Hardened and Tempered	95	125	95	125	20	C22	125	C22
416-HT	Martensitic Stainless Steel Hardened and Tempered	135	180	135	180	12	C36	150	C36
430	Ferritic Stainless Steel	40	70	40	70	20	B75	70	B75