

YIELD STRENGTH OF BOLTING MATERIALS

SPEC.	GRADE	SIZE (INCHES)	MINIMUM YIELD (IN PSI)	SPEC.	GRADE	SIZE (INCHES)	MINIMUM YIELD (IN PSI)	
ASTM A193	B5		80,000	ASTM A490	1	1/2 - 1	130,000	
	B6		85,000		2	1/2 - 1-1/2	130,000	
	B7	< 2-1/2	105,000		3	1/2 - 1-1/2	130,000	
		2-1/2 - 4	95,000	ASTM A540	CL 1	< 8	150,000	
		> 4 - 7	75,000		CL 2	< 9-1/2	140,000	
	B7M	< 2-1/2	80,000		CL 3	< 9-1/2	130,000	
	B8-CL 1		30,000 - 55,000		CL 4	< 9-1/2	120,000	
	B8-CL 2		50,000 - 100,000		CL 5	< 9-1/2	100,000	
	B16	< 2-1/2	105,000	B24V	< 11	130,000 - 150,000		
		> 2-1/2 - 4	95,000	SAE J429	GR 1	1-4 - 1-1/2	36,000	
> 4 - 7		85,000	GR 2		1/4 - 3/4	57,000		
ASTM A320	L7	< 2-1/2			> 3/4 - 1-1/2	36,000		
	L43	< 4	105,000		GR 4	1/4 - 1-1/2	100,000	
	L7M	< 2-1/2	80,000		GR 5	1/4 - 1	92,000	
	L1	< 1	150,000			> 1 - 1-1/2	81,000	
	B8-CL 1		30,000		GR 7	1/4 - 1-1/2	115,000	
	B8-CL 1A		30,000		GR 8	1/4 - 1-1/2	130,000	
	B8-CL 2	< 3/4	100,000		GR 8.1	1/4 - 1-1/2	130,000	
		> 3/4 - 1	80,000		GR 8.2	1/4 - 1	130,000	
		> 1 - 1-1/4	65,000	STAINLESS STEELS	303		40,000 - 80,000	
		> 1-1/4 - 1-1/2	50,000		410		110,000	
B8M-CL 2	< 3/4	95,000	431			140,000		
	> 3/4 - 1	80,000	17-4PH			180,000		
	> 1 - 1-1/4	65,000	17-7PH			185,000		
	> 1-1/4 - 1-1/2	50,000	AM350			162,000		
ASTM A325	TYPE 1,2,3,	1/2 - 1	92,000		PH15-7MO		155,000	
		> 1 - 1-1/2	81,000		HIGH PERFORMANCE MATERIALS	A286		95,000 - 119,000
ASTM 354	BC	1/2 - 2-1/2	109,000			HASTELOY-X		52,000
		2-3/4 - 4	99,000			H-11		215,000
	BD	1/4 - 2-1/2	130,000	INCONEL 600			37,000	
		2-3/4 - 4	115,000	INCONEL 718			260,000	
ASTM A449		1/4 - 1	92,000	INCONEL X750			92,000	
		1-1/8 - 1-1/2	81,000	MARAGING 300			260,000	
		1-3/4 - 3	58,000	MP35N				
	651		50,000 - 70,000	NIMONIC 80A			90,000	
	660		85,000	RENE 41			157,000	
	662		80,000 - 85,000	TITANIUM	TI-6Al-4V	128,000		
	665		120,000		WASPALLOY	115,000		