

Material	Type thread	Beginnin g of bending [N]	fracture load [N]	permissible load [N]								
				68°F 20°C	212°F 100°C	392°F 200°C	482°F 250°C	572°F 300°C	662°F 350°C	752°F 400°C	842°F 450°C	932°F 500°C
ASME SA 193 Gr. B8M Cl. 1 acc. ASME Code Sec. II, Part A	M10-K	13.600	36.700	6.799	6.328	5.188	4.853	4.607	4.414	4.288	4.189	4.121
	M10-L	15.300	30.000									
	M10-LS	21.000	26.200									
	M12-L	37.440	57.640	9.912	9.226	7.564	7.076	6.717	6.435	6.252	6.107	6.008
	M12-L2	19.920	40.944									
	M16-K	53.700	9.800	18.735	17.438	14.296	13.374	12.697	12.163	11.818	11.544	11.356
	M16-L	54.600	100.960									
	M16-L2	61.100	94.020									
	M16-LS	62.760	102.660									
	M20-K	71.500	154.500	29.275	27.249	22.339	20.898	19.840	19.006	18.466	18.038	17.745
	M20-L	68.060	149.220									
	M20-L2	100.200	155.400									
	M24-K	94.480	186.460	42.154	39.236	32.167	30.091	28.567	27.368	26.589	25.973	25.552
	M24-L	92.880	189.720									
	M24-L2	97.800	196.660									
	M24-LS	119.300	186.600									
	M24-LX	120.980	196.360	55.520	51.677	42.366	39.633	37.626	36.046	35.021	34.209	33.654
	M27-K	114.000	265.400									
	M27-L	123.000	262.000									
	M27-L2	117.000	249.600	55.520	51.677	42.366	39.633	37.626	36.046	35.021	34.209	33.654
M27-L3	134.400	241.200										
3/8"-16 UNC	14.400	33.300	5.897	5.489	4.500	4.210	3.997	3.829	3.720	3.634	3.575	
1/2"-13 UNC	33.500	57.300	10.853	10.102	8.282	7.747	7.355	7.046	6.846	6.687	6.579	
5/8"-11 UNC	35.400	76.400	17.388	16.184	13.269	12.412	11.784	11.289	10.968	10.714	10.540	
3/4"-10 UNC	60.000	120.000	25.975	24.177	19.821	18.542	17.603	16.864	16.384	16.005	15.745	
1"-8 UNC	85.400	208.000	47.197	43.929	36.015	33.691	31.985	30.641	29.770	29.080	28.608	
1 1/8"-7 UNC	126.000	254.000	59.548	55.425	45.440	42.508	40.355	38.660	37.561	36.691	36.095	

Material	Type thread	Beginnin g of bending [N]	fracture load [N]	permissible load [N]			
				-22°F bis 662°F -30°C bis 350°C	752°F 400°C	842°F 450°C	932°F 500°C
ASME SA 193 Gr. B7 acc. ASME Code Sec. II, Part A	M12-L	64.680	84.000	13.115	12.352	8.997	5.246
	M12-L2	61.800	73.800				
	M16-K	97.060	148.980				
	M16-L	109.500	153.900	24.788	23.347	17.006	9.915
	M16-L2	114.900	138.900				
	M16-LS	101.300	144.800				
	M20-K	180.600	239.100	38.733	36.482	26.573	15.493
	M20-L	184.500	231.400				
	M20-L2	179.100	231.300				
	M24-K	223.200	352.800	55.773	52.530	38.263	22.309
	M24-L	226.200	330.000				
	M24-L2	226.800	313.200				
	M24-LS	228.000	326.760				
	M24-LT	228.600	349.080				
	M24-LX	219.740	308.420				
	M27-K	345.000	464.400	73.458	69.187	50.395	29.383
	M27-L	330.000	447.600				
	M27-L2	291.600	428.180				
	M27-L3	307.200	470.400				
	M27-LS	317.400	462.000				
	M33-L2	389.740	617.160	111.318	104.846	76.369	44.527
	M33-L4	371.000	667.200				
	M33-LX	462.380	699.800				
	M33-LY	425.320	676.480				
	1/2"-13 UNC	70.800	83.400	14.359	13.525	9.851	5.744
	5/8"-11 UNC	115.500	138.500	23.006	21.668	15.783	9.202
3/4"-10 UNC	171.000	238.000	34.367	32.369	23.577	13.747	
1"-8 UNC	261.000	356.600	62.445	58.814	42.840	24.978	
1 1/8"-7 UNC	318.000	454.000	78.787	74.206	54.051	31.515	
1 1/4"-8-UN	430.800	655.468	101.419	95.523	69.578	40.568	
2 1/4"-4,5 UNC	-	-	341.107	321.275	234.015	136.443	

Note: Values of beginning of bending and fracture load are average values.