

Material	Type thread	Beginning 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	14620	31040	6799	6328	5188	4853	4607	4414	4288	4189	4121
	M10-L	14840	32920									
	M12-L	37440	57640	9912	9226	7564	7076	6717	6435	6252	6107	6008
	M12-L2	19920	40944									
	M16-K	53700	98000	18735	17438	14296	13374	12697	12163	11818	11544	11356
	M16-L	54600	100960									
	M16-L2	61100	94020									
	M16-LS	62760	102660									
	M20-K	85100	153260	29275	27249	22339	20898	19840	19006	18466	18038	17745
	M20-L	68060	149220									
	M20-L2	72440	131000									
	M24-K	94480	186460	42154	39236	32167	30091	28567	27368	26589	25973	25552
	M24-L	92880	189720									
	M24-L2	97800	196660									
	M24-LS	119300	186600									
	M24-LX	120980	196360									
	M27-K	165740	265860	55520	51677	42366	39633	37626	36046	35021	34209	33654
	M27-L	158220	265600									
	M27-L2	186340	265340									
	M27-L3	134400	241200									
3/8"-16 UNC	14400	33300	5897	5489	4500	4210	3997	3829	3720	3634	3575	
1/2"-13 UNC	33500	57300	10853	10102	8282	7747	7355	7046	6846	6687	6579	
5/8"-11 UNC	35400	76400	17388	16184	13269	12412	11784	11289	10968	10714	10540	
3/4"-10 UNC	60000	120000	25975	24177	19821	18542	17603	16864	16384	16005	15745	
1"-8 UNC	85400	208000	47197	43929	36015	33691	31985	30641	29770	29080	28608	
1 1/8"-7 UNC	126000	254000	59548	55425	45440	42508	40355	38660	37561	36691	36095	

Material	Type thread	Beginning of bending [N]	fracture load [N]	permissible load [N]			
				-22°F bis -30°C bis 350°C	662°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	64680	84000	13115	12352	8997	5246
	M12-L2	61800	73800				
	M16-K	97060	148980	24788	23347	17006	9915
	M16-L	109500	153900				
	M16-L2	114900	138900				
	M16-LS	101300	144800				
	M20-K	180600	239100	38733	36482	26573	15493
	M20-L	136860	230980				
	M20-L2	179100	231300				
	M24-K	223200	352800	55773	52530	38263	22309
	M24-L	220010	347780				
	M24-L2	226800	313200				
	M24-LS	228000	326760				
	M24-LT	228600	349080				
	M24-LX	219740	308420	73458	69187	50395	29383
	M27-K	238200	436200				
	M27-L	330000	447600				
	M27-L2	291600	428180				
	M27-L3	307200	470400	111318	104846	76369	44527
	M27-LS	317400	462000				
M33-K	399340	473260					
M33-L	427640	498540					
M33-L2	389740	617160					
M33-L3	474120	593180	341107	321275	234015	136443	
M33-L4	371000	667200					
M33-LX	462380	699800					
M33-LY	425320	676480					
1/2"-13 UNC	70800	83400	14359	13525	9851	5744	
5/8"-11 UNC	115500	138500	23006	21668	15783	9202	
3/4"-10 UNC	171000	238000	34367	32369	23577	13747	
1"-8 UNC	261000	356600	62445	58814	42840	24978	
1 1/8"-7 UNC	318000	454000	78787	74206	54051	31515	
1 1/4"-8-UN	430800	655468	101419	95523	69578	40568	
2 1/4"-4,5 UNC	-	-	341107	321275	234015	136443	

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