

Material	Type thread	Beginning of bending [N]	fracture load [N]	Test and mounting conditions	permissible load [N] in working order, according to AD-A5 appendix. 2									
					68°F 20°C	212°F 100°C	302°F 150°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
42CrMo4 / 1.7225 DIN EN 10269 acc. AD2000 - W7: 11.2014	M12-L	64.680	84.000	19.496	14.081	13.541	13.058	12.345	11.612	10.840	9.992	9.162	8.101	7.233
	M12-L2	61.800	73.800	16.917	12.218	11.749	11.331	10.712	10.076	9.406	8.670	7.950	7.030	6.276
	M16-K	97.060	148.980	36.478	26.346	25.335	24.433	23.098	21.726	20.283	18.695	17.143	15.158	13.534
	M16-L	109.500	153.900	40.520	29.260	28.530	27.430	26.010	24.390	22.760	21.060	19.310	17.070	15.240
	M16-L2	114.900	138.900	47.060	34.600	33.270	32.090	30.330	28.530	26.640	24.550	22.510	19.900	17.770
	M16-LS	101.300	144.800	38.594	27.874	26.804	25.850	24.437	22.986	21.459	19.779	18.137	16.037	14.319
	M20-K	180.600	239.100	75.480	53.870	51.804	49.959	47.229	44.425	41.473	38.226	35.053	30.994	27.673
	M20-L	184.500	231.400	80.690	58.280	56.050	54.050	51.100	48.060	44.870	41.360	37.920	33.530	29.940
	M20-L2	179.100	231.300	77.980	56.320	54.160	52.230	49.380	46.450	43.360	39.970	36.650	32.400	29.930
	M24-K	223.200	352.800	100.081	72.281	69.508	67.033	63.369	59.607	55.646	51.290	47.032	41.586	37.130
	M24-L	226.200	330.000	114.723	82.858	79.680	76.842	72.643	68.329	63.789	58.795	53.914	47.672	42.564
	M24-L2	226.800	313.200	107.440	77.492	74.520	71.866	67.939	63.905	59.659	54.988	50.423	44.585	39.808
	M24-LS	228.000	326.760	102.847	74.281	71.432	68.888	65.123	61.256	57.186	52.709	48.333	42.737	38.158
	M24-LT	228.600	349.080	100.166	72.345	69.570	67.092	63.425	59.659	55.695	51.335	47.073	41.623	37.163
	M24-LX	219.740	308.420	92.024	66.464	63.915	61.639	58.270	54.810	51.168	47.162	43.247	38.240	34.142
	M27-K	345.000	464.400	154.870	111.850	107.560	103.720	98.060	92.230	86.100	79.360	72.770	64.350	57.450
	M27-L	330.000	447.600											
	M27-L2	291.600	428.180	134.793	97.353	93.619	90.285	85.351	80.283	74.949	69.081	63.346	56.012	50.010
	M27-L3	307.200	470.400	149.880	108.330	104.180	100.470	94.980	89.340	83.400	76.870	70.490	62.350	55.670
	M27-LS	317.400	462.000	143.077	103.333	99.370	95.831	90.593	85.214	79.552	73.324	67.237	59.452	53.082
M33-L2	389.740	617.160	208.020	147.900	142.230	137.160	129.670	121.970	113.860	104.950	96.230	85.090	75.970	
M33-L4	371.000	667.200	208.595	150.600	144.820	139.665	132.030	124.190	115.940	106.860	97.990	86.660	77.380	
M33-LX	462.380	699.800	238.590	169.760	165.510	159.620	150.895	141.935	132.500	122.130	111.990	99.130	88.520	
M33-LY	425.320	676.480	212.144	153.219	147.342	142.095	134.329	126.353	117.958	108.723	99.698	88.154	78.709	
1 1/4"8UN-L4	430.800	655.500	232.190	167.780	161.340	155.600	147.090	138.360	129.170	119.050	109.170	96.470	86.140	
X6CrNiMoTi17-12-2 / 1.4571 DIN EN 10222-5 acc. AD2000 - W2: 02.2008	M10-L	15.300	30.000	2.970	2.500	2.160	1.960	1.800	1.700	1.600	1.570	1.560	1.550	
	M10-LS	21.000	26.200	3.580	2.900	2.560	2.350	2.140	2.040	1.950	1.880	1.820	1.780	1.760
	M12-L	37.440	57.640	5.958	4.303	3.791	3.627	3.422	3.217	2.971	2.869	2.766	2.705	2.643
	M12-L2	19.920	40.944	4.422	3.194	2.813	2.692	2.540	2.388	2.205	2.129	2.053	2.007	1.962
	M16-K	53.700	98.000	15.474	11.181	9.949	9.401	8.945	8.489	7.987	7.713	7.485	7.348	7.211
	M16-L	54.600	100.960	16.067	11.611	10.332	9.763	9.289	8.815	8.294	8.009	7.772	7.630	7.488
	M16-L2	61.100	94.020											
	M16-LS	62.760	102.660	14.110	10.191	8.978	8.589	8.104	7.619	7.037	6.794	6.551	6.406	6.260
	M20-K	71.500	154.500	29.500	20.900	17.350	16.270	15.500	14.700	13.900	13.500	13.200	12.900	12.700
	M20-L	68.060	149.220	24.711	17.848	15.881	15.007	14.278	13.550	12.748	12.311	11.947	11.728	11.510
	M20-L2	100.200	155.400	30.300	21.900	18.150	16.920	15.800	15.100	14.400	14.000	13.500	13.200	13.000
	M24-K	94.480	186.460											
	M24-L	92.880	189.720											
	M24-L2	97.800	196.660	38.055	27.484	24.212	23.165	21.856	20.548	18.977	18.323	17.668	17.276	16.883
	M24-LS	119.300	186.600											
	M24-LX	120.980	196.360											
	M27-K	114.000	265.400	58.500	41.200	34.320	32.160	30.600	29.000	27.500	26.800	26.000	25.500	25.200
	M27-L	123.000	262.000	64.700	45.800	38.000	35.400	33.200	31.600	30.200	29.200	28.300	27.600	27.300
	M27-L2	117.000	249.600	64.400	46.500	38.600	36.000	33.700	32.100	30.700	29.600	28.800	28.100	27.750
	M27-L3	134.400	241.200	59.810	43.200	38.430	36.320	34.550	32.790	30.850	29.790	28.910	28.200	27.850
21CrMoV5-7 / 1.7709 DIN EN 10269 acc. AD2000 - W7: 11.2014	M16-K	85.500	123.500	32.400	23.360	22.520	21.880	21.240	20.390	19.540	18.480	17.420	16.140	14.870
	M16-L	107.700	134.700	35.900	25.960	25.020	24.310	23.600	22.660	21.710	20.530	19.350	17.940	16.520
	M16-L2	89.400	116.700	35.900	23.080	22.240	21.610	20.980	20.140	19.300	18.250	17.200	15.940	14.680
	M16-LS	98.400	125.400	35.900	24.590	23.690	23.020	22.350	21.460	20.560	19.440	18.330	16.980	15.640
	M20-K	142.600	184.900	61.900	44.700	43.070	41.850	40.640	39.010	37.380	35.350	33.320	30.880	28.440
	M20-L	127.000	188.000	54.400	39.250	37.830	36.750	35.680	34.260	32.830	31.040	29.260	27.120	24.980
	M20-L2	152.800	201.200	57.800	41.750	40.230	39.090	37.950	36.430	34.920	33.020	31.120	28.840	26.570
	M24-K	175.800	271.800	83.100	60.040	57.860	56.220	54.580	52.400	50.220	47.490	44.760	41.480	38.210
	M24-L	190.800	282.900	80.200	57.900	55.800	54.220	52.640	50.530	48.430	45.790	43.160	40.000	36.840
	M24-L2	197.400	282.000	82.600	59.660	57.490	55.860	54.230	52.060	49.890	47.180	44.470	41.220	37.960
	M24-LS	190.000	283.300	97.200	70.180	67.630	65.720	63.800	61.250	58.700	55.510	52.320	48.490	44.660
	M27-K	265.000	357.000	134.300	96.970	93.440	90.800	88.150	84.630	81.106	76.690	72.290	67.000	61.710
	M27-L	260.000	341.300											
	M27-L2	274.000	355.800	123.500	89.210	85.970	83.530	81.100	77.860	74.600	70.560	66.500	61.640	56.770
	M27-L3	290.400	354.600	134.300	96.970	93.440	90.800	88.150	84.630	81.106	76.690	72.290	67.000	61.710
	M27-LS	286.000	351.000											
	M30-L3	219.562	279.443	131.420	94.920	91.460	88.880	86.290	82.840	79.380	75.070	70.760	65.580	60.400
	M33-K	388.400	536.000	195.900	141.490	136.340	132.480	128.620	123.480	118.330	111.900	105.470	97.750	90.040
	M33-L	415.000	548.000	184.300	133.090	128.250	124.620	120.990	116.150	111.310	105.260	99.210	91.950	84.690
	M33-L2	376.100	574.700	177.600	128.270	123.610	120.110	116.610	111.950	107.280	101.450	95.620	88.620	81.630
M33-L3	352.000	585.000	163.830	118.320	114.020	110.790	107.560	103.260	98.960	93.580	88.200	81.750	75.290	
M33-LX	432.500	533.600	203.600	147.090	141.740	137.720	133.710	128.360	123.020	116.330	109.640	101.620	93.600	
C3SE / 1.1181 DIN EN 10269 acc. AD2000 - W7: 11.2014	M10-K	24.800	33.800	4.230	3.000	2.700	2.500	2.300	2.200	2.100	-	-	-	-
	M10-L	17.600	35.700	4.230	3.000	2.800	2.600	2.400	2.200	2.000	-	-	-	-

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