

**Table 3: Load Carrying Capacities of Threaded Hanger Rods.
Materials Carbon Steel with Minimum Actual Tensile Strength of 50 Ksi.**

Rod Diameter (in)	Threads per Inch	Root Area of Coarse Thread (in²)	Maximum Safe Load (lbs) Rod Temperature, 650° F	Maximum Safe Load (lbs) Rod Temperature, 750° F
3/8	16	0.068	730	572
1/2	13	0.126	1,350	1,057
5/8	11	0.202	2,160	1,692
3/4	10	0.302	3,230	2,530
7/8	9	0.419	4,480	3,508
1	8	0.552	5,900	4,620
1 1/4	7	0.889	9,500	7,440
1 1/2	6	1.293	13,800	10,807
1 3/4	5	1.744	18,600	14,566
2	4 1/2	2.292	24,600	19,265
2 1/4	4 1/2	3.021	32,300	25,295
2 1/2	4	3.716	39,800	31,169
2 3/4	4	4.619	49,400	38,687
3	4	5.621	60,100	47,066
3 1/4	8 UN	6.720	71,900	56,307
3 1/2	8 UN	7.918	84,700	66,331
3 3/4	8 UN	9.214	98,500	77,139
4	8 UN	10.608	113,400	88,807
4 1/4	8 UN	12.100	129,400	101,337
4 1/2	8 UN	13.690	146,600	114,807
4 3/4	8 UN	15.379	164,700	128,982
5	8 UN	17.165	184,000	144,096

Standard UNC thread thru 3" diameter and 8-UN-2A thread series for 3 1/4" diameter and larger