

# TENSILE STRENGTH OR BREAKLOAD IN POUNDS

STATIC BREAKING STRENGTHS (IN POUNDS)

TENSILE	55,000	60,000	65,000	70,000	80,000	90,000	100,000
MATERIAL →	Steel 1008 1010 1012 1015	Aluminum 2024-T4 Yellow Brass	Steel 1015 1018 1022 1029	Steel 1022 Straight Drawn Selected Coils	Steel 1038 Straight Drawn Monel 18-8SS Silicon Bronze	Steel 1038 Straight Drawn Selected Coils	18RC
Screw Size ↓			Straight Drawn				
2-56	205	220	240	260	300	330	370
2-64	215	235	255	275	315	355	395
3-48	270	290	315	340	390	440	490
3-56	290	315	340	370	420	470	525
4-40	330	360	390	425	485	545	605
4-48	365	395	430	465	530	595	660
5-40	440	480	520	555	635	715	800
5-44	455	495	540	580	665	750	835
6-32	500	545	590	635	725	820	910
6-40	555	610	660	710	815	915	1015
8-32	770	840	910	980	1120	1260	1400
8-36	810	885	960	1030	1180	1330	1470
10-24	960	1050	1140	1220	1400	1570	1750
10-32	1100	1200	1300	1400	1600	1800	2000
12-24	1330	1450	1570	1690	1930	2175	2420
12-28	1415	1550	1680	1810	2060	2320	2580
1/4-20	1750	1910	2070	2230	2540	2860	3180
1/4-28	2000	2180	2370	2550	2910	3280	3640
5/16-18	2880	3140	3410	3670	4190	4720	5250
5/16-24	3190	3490	3780	4070	4650	5230	5800
3/8-16	4260	4650	5040	5420	6200	6970	7750
3/8-24	4830	5270	5710	6150	7020	7900	8800
7/16-14	5850	6380	6910	7440	8500	9570	10650
7/16-20	6530	7120	7710	8310	9500	10700	11900
1/2-13	7800	8510	9220	9930	11300	12800	14200
1/2-20	8790	9590	10400	11200	12800	14400	16000

These values were calculated using the formula and the tensile stress areas as given in the national bureau of standards handbook H-28, and its supplements. Materials listed in the column are those which normally need values shown in the condition indicated.