

Sheet1

Aluminum (Medium Load)			
Force (lbs)	Strain (m)	Stress	Strain (inches)
1000	1.27E-6	34421126	0.000050
1500	2.54E-6	51631689	0.000100
2000	1.27E-5	68842252	0.000500
2500	2.79E-5	86052815	0.001100
3000	4.06E-5	103263378	0.001600
3500	5.33E-5	120473941	0.002100
4000	6.60E-5	137684504	0.002600
4500	8.13E-5	154895068	0.003200
5000	9.53E-5	172105631	0.003750
5500	1.08E-4	189316194	0.004250
6000	1.23E-4	206526757	0.004850
6500	1.40E-4	223737320	0.005500
7000	1.44E-4	240947883	0.005650
7500	1.46E-4	258158446	0.005750
8000	1.49E-4	275369009	0.005850
8500	1.50E-4	292579572	0.005900
9000	1.52E-4	309790135	0.006000
9500	1.54E-4	327000698	0.006050
10000	1.54E-4	344211261	0.006050
10500	1.55E-4	361421824	0.006100
11000	1.55E-4	378632387	0.006100
11500	1.55E-4	395842950	0.006100
12000	1.55E-4	413053513	0.006100

Aluminum (High Load)			
Force (lbs)	Strain	Stress	Strain
2500	4.57E-5	86052815	0.001800
5000	1.17E-4	172105631	0.004600
7500	1.87E-4	258158446	0.007350
10000	2.02E-4	344211261	0.007950
12000	2.04E-4	413053513	0.008050
14000	2.04E-4	481895766	0.008050
18000	2.06E-4	619580270	0.008100

Stainless Steel (High Load)			
Force (lbs)	Strain	Stress	Strain
2000	1.14E-5	68842252	0.000450
3000	2.03E-5	103263378	0.000800
4000	3.05E-5	137684504	0.001200
5000	3.94E-5	172105631	0.001550
6000	4.95E-5	206526757	0.001950
7000	5.84E-5	240947883	0.002300
8000	7.11E-5	275369009	0.002800
9000	8.00E-5	309790135	0.003150
10000	9.65E-5	344211261	0.003800
11000	1.07E-4	378632387	0.004200
12000	1.21E-4	413053513	0.004750
13000	1.37E-4	447474640	0.005400
14000	1.54E-4	481895766	0.006050
15000	1.74E-4	516316892	0.006850
15500	1.91E-4	533527455	0.007500

Cold Finish 1040 Steel			
Force (lbs)	Strain	Stress	
1500	0.000370	51631689	
3000	0.000850	103263378	
4500	0.001300	154895068	
6000	0.001800	206526757	
7500	0.002350	258158446	
9000	0.002850	309790135	
10500	0.003350	361421824	
12000	0.003900	413053513	
13500	0.004450	464685203	
15000	0.005250	516316892	
16500	0.006300	567948581	
18000	0.007850	619580270	
19500	0.010400	671211959	
21000	0.016500	722843648	
22000	0.018650	757264775	
23000	0.018650	791685901	