

第29表 応力換算表 (I)

1 kgf/mm ² = 1.42231 ksi = 9.80665 MPa (N/mm ²)					
kgf/mm ²	ksi	MPa (N/mm ²)	kgf/mm ²	ksi	MPa (N/mm ²)
1	1.422	9.807	51	72.538	500.139
2	2.845	19.613	52	73.960	509.946
3	4.267	29.420	53	75.382	519.752
4	5.689	39.227	54	76.805	529.559
5	7.112	49.033	55	78.227	539.366
6	8.534	58.840	56	79.649	549.172
7	9.956	68.647	57	81.072	558.979
8	11.378	78.453	58	82.494	568.786
9	12.801	88.260	59	83.916	578.592
10	14.223	98.067	60	85.339	588.399
11	15.645	107.873	61	86.761	598.206
12	17.068	117.680	62	88.183	608.012
13	18.490	127.486	63	89.606	617.819
14	19.912	137.293	64	91.028	627.626
15	21.335	147.100	65	92.450	637.432
16	22.757	156.906	66	93.872	647.239
17	24.179	166.713	67	95.295	657.045
18	25.602	176.520	68	96.717	666.852
19	27.024	186.326	69	98.139	676.659
20	28.446	196.133	70	99.562	686.466
21	29.869	205.940	71	100.984	696.272
22	31.291	215.746	72	102.406	706.079
23	32.713	225.553	73	103.829	715.886
24	34.135	235.360	74	105.251	725.692
25	35.558	245.166	75	106.673	735.499
26	36.980	254.973	76	108.096	745.305
27	38.402	264.780	77	109.518	755.112
28	39.825	274.586	78	110.940	764.919
29	41.247	284.393	79	112.362	774.725
30	42.669	294.200	80	113.785	784.532
31	44.092	304.006	81	115.207	794.339
32	45.514	313.813	82	116.629	804.145
33	46.936	323.619	83	118.052	813.952
34	48.359	333.426	84	119.474	823.759
35	49.781	343.233	85	120.896	833.565
36	51.203	353.039	86	122.319	843.372
37	52.625	362.846	87	123.741	853.179
38	54.048	372.653	88	125.163	862.985
39	55.470	382.459	89	126.586	872.792
40	56.892	392.266	90	128.008	882.599
41	58.315	402.073	91	129.430	892.405
42	59.737	411.879	92	130.853	902.212
43	61.159	421.686	93	132.275	912.018
44	62.582	431.493	94	133.697	921.825
45	64.004	441.299	95	135.119	931.632
46	65.426	451.106	96	136.542	941.438
47	66.849	460.913	97	137.964	951.245
48	68.271	470.719	98	139.386	961.052
49	69.693	480.526	99	140.809	970.858
50	71.116	490.333	100	142.231	980.665

1 kgf/mm² = 1.42231 ksi = 9.80665 MPa (N/mm²)

kgf/mm ²	ksi	MPa (N/mm ²)	kgf/mm ²	ksi	MPa (N/mm ²)
101	143.653	990.472	151	214.769	1480.800
102	145.076	1000.280	152	216.191	1490.610
103	146.498	1010.090	153	217.613	1500.420
104	147.920	1019.890	154	219.036	1510.220
105	149.343	1029.700	155	220.458	1520.030
106	150.765	1039.500	156	221.880	1529.840
107	152.187	1049.310	157	223.303	1539.640
108	153.609	1059.120	158	224.725	1549.450
109	155.032	1068.920	159	226.147	1559.260
110	156.454	1078.730	160	227.570	1569.060
111	157.876	1088.540	161	228.992	1578.870
112	159.299	1098.340	162	230.414	1588.680
113	160.721	1108.150	163	231.837	1598.480
114	162.143	1117.960	164	233.259	1608.290
115	163.566	1127.760	165	234.681	1618.100
116	164.988	1137.570	166	236.103	1627.900
117	166.410	1147.380	167	237.526	1637.710
118	167.833	1157.180	168	238.948	1647.520
119	169.255	1166.990	169	240.370	1657.320
120	170.677	1176.800	170	241.793	1667.130
121	172.100	1186.600	171	243.215	1676.940
122	173.522	1196.410	172	244.637	1686.740
123	174.944	1206.220	173	246.060	1696.550
124	176.366	1216.020	174	247.482	1706.360
125	177.789	1225.830	175	248.904	1716.160
126	179.211	1235.640	176	250.327	1725.970
127	180.633	1245.440	177	251.749	1735.780
128	182.056	1255.250	178	253.171	1745.580
129	183.478	1265.060	179	254.593	1755.390
130	184.900	1274.860	180	256.016	1765.200
131	186.323	1284.670	181	257.438	1775.000
132	187.745	1294.480	182	258.860	1784.810
133	189.167	1304.280	183	260.283	1794.620
134	190.590	1314.090	184	261.705	1804.420
135	192.012	1323.900	185	263.127	1814.230
136	193.434	1333.700	186	264.550	1824.040
137	194.856	1343.510	187	265.972	1833.840
138	196.279	1353.320	188	267.394	1843.650
139	197.701	1363.120	189	268.817	1853.460
140	199.123	1372.930	190	270.239	1863.260
141	200.546	1382.740	191	271.661	1873.070
142	201.968	1392.540	192	273.084	1882.880
143	203.390	1402.350	193	274.506	1892.680
144	204.813	1412.160	194	275.928	1902.490
145	206.235	1421.960	195	277.350	1912.300
146	207.657	1431.770	196	278.773	1922.100
147	209.080	1441.580	197	280.195	1931.910
148	210.502	1451.380	198	281.617	1941.720
149	211.924	1461.190	199	283.040	1951.520
150	213.346	1471.000	200	284.462	1961.330

第30表 応力換算表(Ⅱ)

1 ksi (1000psi) = 0.703070 kgf/mm ² = 6.894757 MPa (N/mm ²)					
ksi	kgf/mm ²	MPa (N/mm ²)	ksi	kgf/mm ²	MPa (N/mm ²)
1	0.703	6.895	51	35.857	351.633
2	1.406	13.790	52	36.560	358.527
3	2.109	20.684	53	37.263	365.422
4	2.812	27.579	54	37.966	372.317
5	3.515	34.474	55	38.669	379.212
6	4.218	41.369	56	39.372	386.106
7	4.921	48.263	57	40.075	393.001
8	5.625	55.158	58	40.778	399.896
9	6.328	62.053	59	41.481	406.791
10	7.031	68.948	60	42.184	413.685
11	7.734	75.842	61	42.887	420.580
12	8.437	82.737	62	43.590	427.475
13	9.140	89.632	63	44.293	434.370
14	9.843	96.527	64	44.996	441.264
15	10.546	103.421	65	45.700	448.159
16	11.249	110.316	66	46.403	455.054
17	11.952	117.211	67	47.106	461.949
18	12.655	124.106	68	47.809	468.844
19	13.358	131.000	69	48.512	475.738
20	14.061	137.895	70	49.215	482.633
21	14.761	144.790	71	49.918	489.528
22	15.468	151.685	72	50.621	496.423
23	16.171	158.579	73	51.324	503.317
24	16.874	165.474	74	52.027	510.212
25	17.577	172.369	75	52.730	517.107
26	18.280	179.264	76	53.433	524.002
27	18.983	186.158	77	54.136	530.896
28	19.686	193.053	78	54.839	537.791
29	20.389	199.948	79	55.543	544.686
30	21.092	206.843	80	56.246	551.581
31	21.795	213.737	81	56.949	558.475
32	22.498	220.632	82	57.652	565.370
33	23.201	227.527	83	58.355	572.265
34	23.904	234.422	84	59.058	579.160
35	24.607	241.317	85	59.761	586.054
36	25.311	248.211	86	60.464	592.949
37	26.014	255.106	87	61.167	599.844
38	26.717	262.001	88	61.870	606.739
39	27.420	268.896	89	62.573	613.633
40	28.123	275.790	90	63.276	620.528
41	28.826	282.685	91	63.979	627.423
42	29.529	289.580	92	64.682	634.318
43	30.232	296.475	93	65.386	641.212
44	30.935	303.369	94	66.089	648.107
45	31.638	310.264	95	66.792	655.002
46	32.341	317.159	96	67.495	661.897
47	33.044	324.054	97	68.198	668.792
48	33.747	330.948	98	68.901	675.686
49	34.450	337.843	99	69.604	682.581
50	35.154	344.738	100	70.307	689.476

1 ksi (1000psi) = 0.703070 kgf/mm² = 6.894757 MPa (N/mm²)

ksi	kgf/mm ²	MPa (N/mm ²)	ksi	kgf/mm ²	MPa (N/mm ²)
101	71.010	696.371	151	106.164	1041.110
102	71.713	703.265	152	106.867	1048.000
103	72.416	710.160	153	107.570	1054.900
104	73.119	717.055	154	108.273	1061.790
105	73.822	723.950	155	108.976	1068.690
106	74.525	730.844	156	109.679	1075.580
107	75.228	737.739	157	110.382	1082.480
108	75.932	744.634	158	111.085	1089.370
109	76.635	751.529	159	111.788	1096.270
110	77.338	758.423	160	112.491	1103.160
111	78.041	765.318	161	113.194	1110.060
112	78.744	772.213	162	113.897	1116.950
113	79.447	779.108	163	114.600	1123.850
114	80.150	786.002	164	115.303	1130.740
115	80.853	792.897	165	116.007	1137.640
116	81.556	799.792	166	116.710	1144.530
117	82.259	806.687	167	117.413	1151.420
118	82.961	813.581	168	118.116	1158.320
119	83.665	820.476	169	118.819	1165.210
120	84.368	827.371	170	119.522	1172.110
121	85.071	834.266	171	120.225	1179.000
122	85.775	841.161	172	120.928	1185.900
123	86.478	848.055	173	121.631	1192.790
124	87.181	854.950	174	122.334	1199.690
125	87.884	861.845	175	123.037	1205.580
126	88.587	868.739	176	123.740	1213.480
127	89.290	875.634	177	124.443	1220.370
128	89.993	882.529	178	125.146	1227.270
129	90.696	889.424	179	125.850	1234.160
130	91.399	896.318	180	126.553	1241.060
131	92.102	903.213	181	127.256	1247.950
132	92.805	910.108	182	127.959	1254.850
133	93.508	917.003	183	128.662	1261.740
134	94.211	923.898	184	129.365	1268.640
135	94.914	930.792	185	130.068	1275.530
136	95.618	937.687	186	130.771	1282.420
137	96.321	944.582	187	131.474	1289.320
138	97.024	951.477	188	132.177	1296.210
139	97.727	958.371	189	132.880	1303.110
140	98.430	965.266	190	133.583	1310.000
141	99.133	972.161	191	134.286	1316.900
142	99.836	979.056	192	134.989	1323.790
143	100.539	985.950	193	135.693	1330.690
144	101.242	992.845	194	136.396	1337.580
145	101.945	999.740	195	137.099	1344.480
146	102.648	1006.630	196	137.802	1351.370
147	103.351	1013.530	197	138.505	1358.270
148	104.054	1020.420	198	139.208	1365.160
149	104.757	1027.320	199	139.911	1372.060
150	105.461	1034.210	200	140.614	1378.950

第31表 応力換算表(Ⅲ)

1 MPa (N/mm ²) = 0.101972 kgf/mm ² = 0.145038 ksi					
MPa (N/mm ²)	kgf/mm ²	ksi	MPa (N/mm ²)	kgf/mm ²	ksi
10	1.020	1.450	510	52.006	73.969
20	2.039	2.901	520	53.025	75.420
30	3.059	4.351	530	54.045	76.870
40	4.079	5.802	540	55.065	78.320
50	5.099	7.252	550	56.084	79.771
60	6.118	8.702	560	57.104	81.221
70	7.138	10.153	570	58.124	82.671
80	8.158	11.603	580	59.144	84.122
90	9.177	13.053	590	60.163	85.572
100	10.197	14.504	600	61.183	87.023
110	11.217	15.954	610	62.203	88.473
120	12.237	17.405	620	63.222	89.923
130	13.256	18.855	630	64.242	91.374
140	14.276	20.305	640	65.262	92.824
150	15.296	21.756	650	66.282	94.274
160	16.316	23.206	660	67.301	95.725
170	17.335	24.656	670	68.321	97.175
180	18.355	26.107	680	69.341	98.626
190	19.375	27.557	690	70.360	100.076
200	20.394	29.008	700	71.380	101.526
210	21.414	30.458	710	72.400	102.977
220	22.434	31.908	720	73.420	104.427
230	23.453	33.359	730	74.439	105.878
240	24.473	34.809	740	75.459	107.328
250	25.493	36.259	750	76.479	108.778
260	26.513	37.710	760	77.498	110.229
270	27.532	39.160	770	78.518	111.679
280	28.552	40.610	780	79.538	113.129
290	29.572	42.061	790	80.558	145.580
300	30.591	43.511	800	81.577	116.030
310	31.611	44.962	810	82.597	117.481
320	32.631	46.412	820	83.617	118.931
330	33.651	47.862	830	84.636	120.381
340	34.670	49.313	840	85.656	121.832
350	35.690	50.763	850	86.676	123.282
360	36.710	52.214	860	87.696	124.732
370	37.730	53.664	870	88.718	126.183
380	38.749	55.114	880	89.735	127.633
390	39.769	56.565	890	90.755	129.084
400	40.789	58.015	900	91.774	130.534
410	41.808	59.465	910	92.794	131.984
420	42.828	60.916	920	93.814	133.435
430	43.848	62.366	930	94.834	134.885
440	44.868	63.817	940	95.853	136.335
450	45.887	65.267	950	96.873	137.786
460	46.907	66.717	960	97.893	139.236
470	47.927	68.168	970	98.912	140.687
480	48.946	69.618	980	99.932	142.137
490	49.966	71.068	990	100.952	143.587
500	50.986	72.519	1000	101.972	145.038

$$1 \text{ MPa (N/mm}^2\text{)} = 0.101972 \text{ kgf/mm}^2 = 0.145038 \text{ ksi}$$

MPa (N/mm ²)	kgf/mm ²	ksi	MPa (N/mm ²)	kgf/mm ²	ksi
1010	102.991	146.488	1510	153.977	219.007
1020	104.011	147.938	1520	154.997	220.457
1030	105.031	149.389	1530	156.017	221.908
1040	106.050	150.829	1540	157.036	223.358
1050	107.070	152.290	1550	158.056	224.808
1060	108.090	153.740	1560	159.076	226.259
1070	109.110	155.190	1570	160.095	227.709
1080	110.129	156.641	1580	161.115	229.160
1090	111.149	158.091	1590	162.135	230.610
1100	112.169	159.541	1600	163.155	232.060
1110	113.189	160.992	1610	164.174	233.511
1120	114.208	162.442	1620	165.194	234.961
1130	115.228	163.893	1630	166.214	236.411
1140	116.248	165.343	1640	167.233	237.862
1150	117.267	166.793	1650	168.253	239.312
1160	118.287	168.244	1660	169.273	240.763
1170	119.307	169.694	1670	170.293	242.213
1180	120.327	171.144	1680	171.312	243.663
1190	121.346	172.595	1690	172.332	245.114
1200	122.366	174.045	1700	173.352	246.564
1210	123.386	175.496	1710	174.371	248.014
1220	124.405	176.946	1720	175.391	249.465
1230	125.425	178.396	1730	176.411	250.915
1240	126.445	179.847	1740	177.431	252.366
1250	127.465	181.297	1750	178.450	253.816
1260	128.484	182.747	1760	179.470	255.266
1270	129.504	184.198	1770	180.490	256.717
1280	130.524	185.648	1780	181.509	258.167
1290	131.543	187.099	1790	182.529	259.617
1300	132.563	188.549	1800	183.549	261.068
1310	133.583	189.999	1810	184.569	262.518
1320	134.603	181.450	1820	185.588	263.969
1330	135.622	192.900	1830	186.608	265.419
1340	136.642	194.351	1840	187.628	266.869
1350	137.662	195.801	1850	188.648	268.320
1360	138.681	197.251	1860	189.667	269.770
1370	139.701	198.702	1870	190.687	271.220
1380	140.721	200.152	1880	191.707	272.671
1390	141.741	201.602	1890	192.726	274.121
1400	142.760	203.053	1900	193.746	275.572
1410	143.780	204.503	1910	194.766	277.022
1420	144.800	205.954	1920	195.786	278.472
1430	145.819	207.404	1930	196.805	279.923
1440	146.839	208.854	1940	197.825	281.373
1450	147.859	210.305	1950	198.845	282.824
1460	148.879	211.755	1960	199.864	284.274
1470	149.898	213.205	1970	200.884	285.724
1480	150.918	214.656	1980	201.904	287.175
1490	151.938	216.106	1990	202.924	288.625
1500	152.957	217.557	2000	203.943	290.075