

齒研平齒車

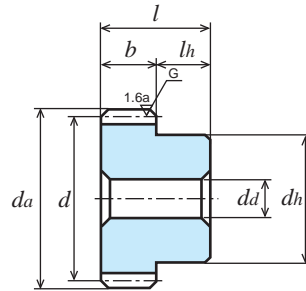
GROUND SPUR GEARS

モジュール **0.5** 圧力角 20° (並齒)
 MODULE 20° PRESSURE ANGLE FULL DEPTH TOOTH

齒部高周波焼き入れ HRC47 ~ 53
 JIS B 1702-1 (ISO) 7級
 System of accuracy : JIS B 1702-1(ISO) class 7



御注文には必ず“フルネームで商品記号”を明記してください。
 Please refer to the catalogue reference while ordering.



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (g)
● SGE50S 30B - 0504	30	φ15	φ16	B1	5	φ4	φ12	8	13	12.7
● SGE50S 40B - 0504	40	φ20	φ21	B1	5	φ4	φ15	8	13	22.1
● SGE50S 50B - 0504	50	φ25	φ26	B1	5	φ4	φ18	8	13	33.9
● SGE50S 60B - 0505	60	φ30	φ31	B1	5	φ5	φ22	8	13	49.5
● SGE50S 70B - 0505	70	φ35	φ36	B1	5	φ5	φ25	8	13	66.5
● SGE50S 80B - 0506	80	φ40	φ41	B1	5	φ6	φ28	8	13	85.0
● SGE50S 90B - 0506	90	φ45	φ46	B1	5	φ6	φ32	8	13	109.9
● SGE50S 100B - 0506	100	φ50	φ51	B1	5	φ6	φ35	8	13	134.4
● SGE50S 120B - 0506	120	φ60	φ61	B1	5	φ6	φ42	8	13	194.9

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Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (W)

Allowable transfer capability table (W) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
30	5	80.54	161.08	241.63	296.60	347.96	459.16	531.69
40	5	117.09	234.19	342.60	415.43	484.22	630.05	727.71
50	5	154.49	307.53	438.50	528.52	612.15	795.67	929.77
60	5	192.53	375.41	530.54	635.73	732.48	965.31	1,123.08
70	5	230.93	441.27	618.60	737.06	855.34	1,128.41	1,315.49
80	5	269.57	505.05	702.44	837.49	979.47	1,288.25	1,505.79
90	5	308.09	566.09	781.45	941.83	1,098.54	1,448.09	1,687.94
100	5	345.37	625.52	862.40	1,044.07	1,214.70	1,604.66	1,865.27
120	5	414.57	738.59	1,029.96	1,240.25	1,447.40	1,904.73	2,221.44

The above references are JGMA standard.

歯面強さ (W)

Allowable transfer capability table (W) Surface Durability

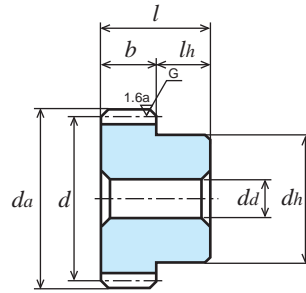
回転速度 (min ⁻¹) revolution/min							
400	800	1,200	1,500	1,800	2,500	3,000	
23.40	48.25	73.71	91.38	108.03	144.51	168.88	
42.74	88.14	131.25	160.74	188.91	249.31	290.12	
68.24	140.01	203.27	247.30	288.79	380.74	448.75	
100.00	200.97	289.16	349.83	406.41	543.35	637.24	
138.12	272.07	388.19	467.15	546.46	731.33	859.50	
182.72	352.81	499.54	601.50	709.14	945.96	1,114.64	
233.83	442.88	622.34	757.42	890.63	1,190.99	1,399.33	
290.20	541.88	760.46	929.62	1,090.21	1,461.16	1,712.07	
416.54	765.05	1,085.93	1,320.47	1,553.44	2,073.87	2,437.97	

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 JIS B 1702-1 (ISO) 7級
 System of accuracy : JIS B 1702-1(ISO) class 7



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	齒先円直径 Tip Diameter <i>da</i>	形 Type	齒幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (g)
● SGE80S 25B - 0805	25	φ20	φ21.6	B1	8	φ 5	φ16	10	18	32.5
● SGE80S 30B - 0805	30	φ24	φ25.6	B1	8	φ 5	φ20	10	18	50.1
● SGE80S 40B - 0806	40	φ32	φ33.6	B1	8	φ 6	φ25	10	18	84.7
● SGE80S 50B - 0806	50	φ40	φ41.6	B1	8	φ 6	φ28	10	18	122.9
● SGE80S 60B - 0806	60	φ48	φ49.6	B1	8	φ 6	φ34	10	18	180.5
● SGE80S 70B - 0808	70	φ56	φ57.6	B1	8	φ 8	φ40	10	18	245.7
● SGE80S 80B - 0808	80	φ64	φ65.6	B1	8	φ 8	φ45	10	18	319.2
● SGE80S 90B - 0808	90	φ72	φ73.6	B1	8	φ 8	φ50	10	18	402.1
● SGE80S 100B - 0810	100	φ80	φ81.6	B1	8	φ10	φ60	10	18	525.8
● SGE80S 120B - 0810	120	φ96	φ97.6	B1	8	φ10	φ70	10	18	744.7

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許容伝達動力表 曲げ強さ (W)

Allowable transfer capability table (W) Bending Strength

歯数 <i>z</i>	齒幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
25	8	257.23	514.46	752.38	912.43	1,063.43	1,383.75	1,598.07
30	8	329.81	659.29	941.65	1,136.20	1,317.84	1,707.70	1,997.37
40	8	479.71	927.82	1,307.05	1,562.49	1,797.72	2,380.47	2,765.49
50	8	632.84	1,185.57	1,648.92	1,966.00	2,299.31	3,024.09	3,534.52
60	8	788.13	1,432.30	1,970.04	2,387.61	2,780.45	3,670.23	4,270.98
70	8	929.75	1,667.30	2,314.57	2,792.93	3,250.73	4,290.73	4,995.68
80	8	1,067.88	1,890.71	2,647.87	3,183.03	3,723.73	4,896.66	5,706.20
90	8	1,200.89	2,101.81	2,966.46	3,579.91	4,176.82	5,493.79	6,382.94
100	8	1,331.42	2,334.79	3,277.69	3,969.25	4,619.06	6,077.09	7,106.74
120	8	1,581.73	2,784.19	3,915.35	4,716.56	5,495.21	7,256.77	8,708.13

The above references are JGMA standard.

齒面強さ (W)

Allowable transfer capability table (W) Surface Durability

回転速度 (min ⁻¹) revolution/min							
400	800	1,200	1,500	1,800	2,500	3,000	
68.40	141.06	210.02	257.25	302.18	398.84	464.43	
100.25	206.60	300.37	365.97	427.76	562.45	663.17	
183.16	365.19	523.66	632.11	733.20	984.91	1,153.54	
292.33	564.56	799.31	962.34	1,134.54	1,513.68	1,783.55	
428.08	801.96	1,122.84	1,374.15	1,613.15	2,160.32	2,533.88	
581.53	1,074.99	1,519.00	1,851.10	2,171.74	2,907.99	3,413.28	
756.77	1,381.16	1,969.08	2,390.32	2,818.63	3,760.20	4,417.24	
953.11	1,719.57	2,470.54	3,010.83	3,540.97	4,725.01	5,533.69	
1,169.89	2,114.84	3,022.20	3,695.86	4,335.34	5,786.57	6,821.14	
1,661.95	3,015.64	4,316.82	5,251.26	6,167.25	8,262.29	9,994.37	

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GROUND SPUR GEARS

モジュール
MODULE

1

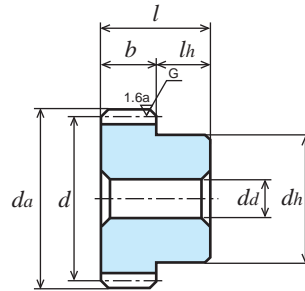
圧力角 20° (並齒)

20° PRESSURE ANGLE FULL DEPTH TOOTH

齒部高周波焼き入れ HRC47 ~ 53
JIS B 1702-1 (ISO) 7級
System of accuracy : JIS B 1702-1(ISO) class 7



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B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	齒先円直径 Tip Diameter <i>da</i>	形 Type	齒幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (g)
● SGE1S 20B - 1005	20	φ 20	φ 22	B1	10	φ 5	φ 16	10	20	37.0
● SGE1S 25B - 1005	25	φ 25	φ 27	B1	10	φ 5	φ 20	10	20	59.7
● SGE1S 30B - 1006	30	φ 30	φ 32	B1	10	φ 6	φ 25	10	20	89.1
● SGE1S 40B - 1006	40	φ 40	φ 42	B1	10	φ 6	φ 30	10	20	149.1
● SGE1S 50B - 1008	50	φ 50	φ 52	B1	10	φ 8	φ 35	10	20	221.0
● SGE1S 60B - 1008	60	φ 60	φ 62	B1	10	φ 8	φ 42	10	20	321.9
● SGE1S 70B - 1010	70	φ 70	φ 72	B1	10	φ 10	φ 55	10	20	442.9
● SGE1S 80B - 1010	80	φ 80	φ 82	B1	10	φ 10	φ 60	10	20	603.1
● SGE1S 90B - 1010	90	φ 90	φ 92	B1	10	φ 10	φ 65	10	20	746.3
● SGE1S 100B - 1010	100	φ 100	φ 102	B1	10	φ 10	φ 70	10	20	904.9
● SGE1S 120B - 1010	120	φ 120	φ 122	B1	10	φ 10	φ 90	10	20	1373.2

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許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	齒幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
20	10	0.37	0.73	1.07	1.30	1.51	1.96	2.27
25	10	0.50	1.00	1.43	1.72	1.99	2.59	3.02
30	10	0.64	1.26	1.78	2.13	2.45	3.23	3.76
40	10	0.94	1.76	2.44	2.91	3.40	4.48	5.23
50	10	1.23	2.23	3.07	3.72	4.33	5.72	6.64
60	10	1.50	2.68	3.73	4.49	5.24	6.90	8.05
70	10	1.77	3.10	4.36	5.26	6.14	8.08	9.39
80	10	2.02	3.54	4.97	6.02	7.01	9.22	10.78
90	10	2.26	3.98	5.59	6.75	7.85	10.31	12.32
100	10	2.50	4.41	6.20	7.46	8.70	11.57	13.88
120	10	2.95	5.23	7.37	8.89	10.32	14.17	17.01

齒面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min							
400	800	1,200	1,500	1,800	2,500	3,000	
0.09	0.18	0.26	0.32	0.38	0.50	0.58	
0.14	0.28	0.41	0.49	0.58	0.76	0.90	
0.20	0.40	0.58	0.70	0.81	1.09	1.27	
0.37	0.71	1.00	1.20	1.42	1.89	2.23	
0.58	1.08	1.52	1.86	2.18	2.92	3.42	
0.83	1.53	2.17	2.64	3.11	4.15	4.88	
1.13	2.04	2.93	3.56	4.19	5.59	6.56	
1.46	2.64	3.78	4.62	5.42	7.23	8.53	
1.84	3.33	4.76	5.80	6.80	9.05	10.91	
2.25	4.08	5.84	7.10	8.34	11.25	13.61	
3.17	5.79	8.30	10.10	11.83	16.48	19.94	

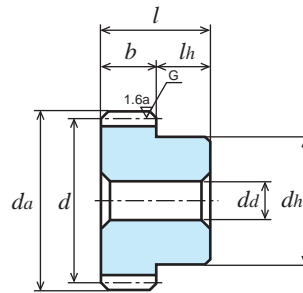
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齒研平齒車

GROUND SPUR GEARS

モジュール **1.5** 圧力角 20° (並歯)
 MODULE 20° PRESSURE ANGLE FULL DEPTH TOOTH

齒部高周波焼き入れ HRC47 ~ 53
 JIS B 1702-1 (ISO) 7級
 System of accuracy : JIS B 1702-1(ISO) class 7



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	齒先円直径 Tip Diameter <i>da</i>	形 Type	齒幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE1.5S 20B - 1506	20	φ 30	φ 33	B1	15	φ 6	φ 25	15	30	0.1
● SGE1.5S 25B - 1508	25	φ 37.5	φ 40.5	B1	15	φ 8	φ 30	15	30	0.2
● SGE1.5S 30B - 1508	30	φ 45	φ 48	B1	15	φ 8	φ 38	15	30	0.3
● SGE1.5S 40B - 1508	40	φ 60	φ 63	B1	15	φ 8	φ 50	15	30	0.6
● SGE1.5S 50B - 1510	50	φ 75	φ 78	B1	15	φ 10	φ 60	15	30	0.8
● SGE1.5S 60B - 1510	60	φ 90	φ 93	B1	15	φ 10	φ 65	15	30	1.1
● SGE1.5S 70B - 1510	70	φ 105	φ 108	B1	15	φ 10	φ 75	15	30	1.5
● SGE1.5S 80B - 1510	80	φ 120	φ 123	B1	15	φ 10	φ 85	15	30	2.0
● SGE1.5S 90B - 1512	90	φ 135	φ 138	B1	15	φ 12	φ 95	15	30	2.5
● SGE1.5S 100B - 1515	100	φ 150	φ 153	B1	15	φ 15	φ 105	15	30	3.1

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許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	齒幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
20	15	1.23	2.40	3.40	4.07	4.69	6.18	7.19
25	15	1.70	3.21	4.48	5.32	6.22	8.18	9.56
30	15	2.17	3.99	5.51	6.65	7.75	10.22	11.91
40	15	3.08	5.49	7.66	9.22	10.76	14.16	16.52
50	15	3.95	6.91	9.73	11.76	13.71	18.04	20.93
60	15	4.78	8.39	11.80	14.24	16.56	21.74	25.99
70	15	5.57	9.82	13.82	16.63	19.38	25.98	31.17
80	15	6.32	11.19	15.77	19.01	22.09	30.33	36.39
90	15	7.03	12.59	17.67	21.29	24.95	34.66	41.59
100	15	7.76	13.95	19.58	23.51	28.11	39.04	46.85

The above references are JGMA standard.

齒面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min							
400	800	1,200	1,500	1,800	2,500	3,000	
0.30	0.60	0.87	1.05	1.22	1.63	1.91	
0.48	0.93	1.33	1.59	1.88	2.50	2.95	
0.70	1.33	1.87	2.27	2.67	3.57	4.20	
1.25	2.30	3.26	3.96	4.66	6.22	7.62	
1.94	3.49	5.01	6.11	7.18	9.58	11.21	
2.75	4.99	7.14	8.70	10.20	13.58	16.37	
3.70	6.72	9.63	11.70	13.75	18.69	22.61	
4.76	8.68	12.45	15.16	17.75	24.73	29.91	
5.93	10.93	15.62	19.01	22.46	31.65	38.28	
7.24	13.42	19.16	23.24	28.01	39.46	47.73	

齒研平齒車 GROUND SPUR GEARS

モジュール
MODULE

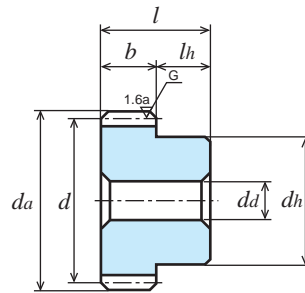
2

圧力角 20° (並歯)
20° PRESSURE ANGLE FULL DEPTH TOOTH

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TYPE B1

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単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (g)
● SGE2S 14B - 2008	14	φ28	φ 32	B1	20	φ 8	φ22	20	40	140.8
● SGE2S 15B - 2008	15	φ30	φ 34	B1	20	φ 8	φ24	20	40	166.4
● SGE2S 16B - 2008	16	φ32	φ 36	B1	20	φ 8	φ26	20	40	194.1
● SGE2S 18B - 2008	18	φ36	φ 40	B1	20	φ 8	φ30	20	40	255.3
● SGE2S 20B - 2008	20	φ40	φ 44	B1	20	φ 8	φ34	20	40	321.1
● SGE2S 24B - 2008	24	φ48	φ 52	B1	20	φ 8	φ42	20	40	486.5
● SGE2S 25B - 2008	25	φ50	φ 54	B1	20	φ 8	φ40	20	40	531.9
● SGE2S 28B - 2010	28	φ56	φ 60	B1	20	φ10	φ50	20	40	671.2
● SGE2S 30B - 2010	30	φ60	φ 64	B1	20	φ10	φ50	20	40	779.8
● SGE2S 32B - 2010	32	φ64	φ 68	B1	20	φ10	φ58	20	40	896.3
● SGE2S 35B - 2010	35	φ70	φ 74	B1	20	φ10	φ60	20	40	1024.8
● SGE2S 36B - 2010	36	φ72	φ 76	B1	20	φ10	φ60	20	40	1.06 (kg)
● SGE2S 40B - 2010	40	φ80	φ 84	B1	20	φ10	φ60	20	40	1.20 (kg)

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Products with ● marks are new item.

Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
14	20	1.64	3.23	4.58	5.51	6.36	8.33	9.71
15	20	1.86	3.63	5.14	6.15	7.09	9.34	10.87
16	20	2.08	4.02	5.66	6.77	7.79	10.32	11.99
18	20	2.49	4.75	6.64	7.91	9.20	12.12	14.15
20	20	2.92	5.47	7.61	9.07	10.61	13.96	16.31
24	20	3.79	6.89	9.48	11.49	13.38	17.67	20.56
25	20	4.00	7.25	9.99	12.09	14.07	18.59	21.61
28	20	4.62	8.28	11.5	13.87	16.15	21.31	24.81
30	20	5.02	8.95	12.48	15.03	17.54	23.09	26.92
32	20	5.43	9.61	13.47	16.19	18.94	24.90	29.02
35	20	6.03	10.58	14.92	17.99	21.00	27.62	32.11
36	20	6.23	10.91	15.40	18.58	21.68	28.51	33.13
40	20	7.02	12.31	17.28	20.93	24.36	32.05	37.48

歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
0.35	0.70	1.01	1.23	1.43	1.90	2.23
0.4	0.8	1.16	1.40	1.63	2.17	2.55
0.46	0.91	1.31	1.58	1.83	2.46	2.88
0.59	1.15	1.64	1.97	2.31	3.09	3.63
0.73	1.41	2.00	2.41	2.84	3.78	4.46
1.07	2.00	2.81	3.44	4.03	5.40	6.33
1.16	2.17	3.04	3.72	4.36	5.84	6.85
1.45	2.69	3.80	4.63	5.43	7.27	8.53
1.67	3.06	4.34	5.28	6.21	8.30	9.75
1.89	3.45	4.92	5.98	7.05	9.4	11.04
2.26	4.08	5.85	7.12	8.38	11.19	13.11
2.38	4.30	6.18	7.53	8.85	11.81	13.83
2.92	5.29	7.56	9.24	10.84	14.47	17.05

The above references are JGMA standard.

齒研平齒車 GROUND SPUR GEARS

モジュール
MODULE

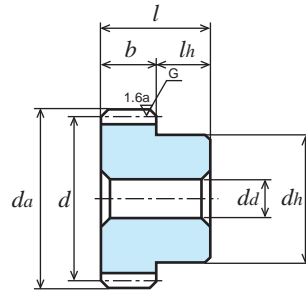
2

圧力角 20° (並齒)
20° PRESSURE ANGLE FULL DEPTH TOOTH

齒部高周波焼き入れ HRC47 ~ 53
JIS B 1702-1 (ISO) 7級
System of accuracy : JIS B 1702-1(ISO) class 7



御注文には必ず“フルネームで商品記号”を明記してください。
Please refer to the catalogue reference while ordering.



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051) Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE2S 45B - 2012	45	φ 90	φ 94	B1	20	φ12	φ 65	20	40	1.49
● SGE2S 48B - 2012	48	φ 96	φ100	B1	20	φ12	φ 70	20	40	1.71
● SGE2S 50B - 2012	50	φ100	φ104	B1	20	φ12	φ 70	20	40	1.80
● SGE2S 55B - 2012	55	φ110	φ114	B1	20	φ12	φ 80	20	40	2.25
● SGE2S 56B - 2012	56	φ112	φ116	B1	20	φ12	φ 80	20	40	2.30
● SGE2S 60B - 2012	60	φ120	φ124	B1	20	φ12	φ 85	20	40	2.62
● SGE2S 64B - 2015	64	φ128	φ132	B1	20	φ15	φ 90	20	40	2.97
● SGE2S 70B - 2015	70	φ140	φ144	B1	20	φ15	φ100	20	40	3.59
● SGE2S 72B - 2015	72	φ144	φ148	B1	20	φ15	φ100	20	40	3.74
● SGE2S 75B - 2015	75	φ150	φ154	B1	20	φ15	φ110	20	40	4.22
● SGE2S 80B - 2015	80	φ160	φ164	B1	20	φ15	φ115	20	40	4.72
● SGE2S 90B - 2015	90	φ180	φ184	B1	20	φ15	φ130	20	40	6.01
● SGE2S 100B - 2015	100	φ200	φ204	B1	20	φ15	φ140	20	40	7.28

●の商品は新商品です。
Products with ● marks are new item.

Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
45	20	7.98	14.02	19.71	23.79	27.67	36.32	43.42
48	20	8.54	15.04	21.14	25.47	29.68	39.19	47.03
50	20	8.91	15.70	22.09	26.58	30.99	41.20	49.44
55	20	9.82	17.34	24.42	29.40	34.23	46.25	55.50
56	20	10.00	17.66	24.88	29.96	34.87	47.27	56.72
60	20	10.70	18.94	26.69	32.18	37.39	51.34	61.60
64	20	11.39	20.28	28.48	34.37	39.90	55.42	66.51
70	20	12.39	22.24	31.22	37.57	44.34	61.58	73.89
72	20	12.72	22.89	32.12	38.62	45.82	63.63	76.36
75	20	13.27	23.85	33.46	40.18	48.04	66.73	80.07
80	20	14.17	25.43	35.66	43.13	51.76	71.89	-
90	20	15.92	28.48	39.89	49.29	59.15	82.16	-
100	20	17.63	31.51	44.42	55.52	66.63	-	-

歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
3.67	6.65	9.52	11.60	13.60	18.11	21.83
4.15	7.54	10.79	13.13	15.42	20.66	24.99
4.49	8.16	11.68	14.19	16.68	22.50	27.22
5.38	9.80	14.05	17.08	20.04	27.47	33.23
5.57	10.14	14.54	17.68	20.75	28.53	34.51
6.34	11.57	16.60	20.21	23.67	32.97	39.88
7.16	13.13	18.78	22.89	26.78	37.74	45.65
8.45	15.65	22.36	27.17	32.32	45.53	55.08
8.91	16.53	23.61	28.67	34.28	48.30	58.43
9.65	17.89	25.55	30.98	37.34	52.62	63.65
10.96	20.27	28.94	35.34	42.75	60.23	-
13.79	25.42	36.25	45.23	54.71	77.09	-
16.91	31.14	44.68	56.40	68.23	-	-

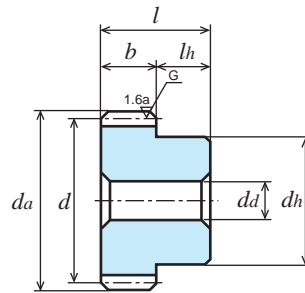
The above references are JGMA standard.

齒研平齒車

GROUND SPUR GEARS

モジュール **2.5** 圧力角 20° (並歯)
 MODULE 20° PRESSURE ANGLE FULL DEPTH TOOTH

歯部高周波焼き入れ HRC47 ~ 53
 JIS B 1702-1 (ISO) 7級
 System of accuracy : JIS B 1702-1(ISO) class 7



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE2.5S 14B - 2510	14	φ 35	φ 40	B1	25	φ10	φ28	20	45	258.1 (g)
● SGE2.5S 15B - 2510	15	φ 37.5	φ 42.5	B1	25	φ10	φ30	20	45	300.3 (g)
● SGE2.5S 16B - 2510	16	φ 40	φ 45	B1	25	φ10	φ32	20	45	345.5 (g)
● SGE2.5S 18B - 2510	18	φ 45	φ 50	B1	25	φ10	φ38	20	45	463.0 (g)
● SGE2.5S 20B - 2510	20	φ 50	φ 55	B1	25	φ10	φ42	20	45	569.3 (g)
● SGE2.5S 24B - 2510	24	φ 60	φ 65	B1	25	φ10	φ50	20	45	836.5 (g)
● SGE2.5S 25B - 2510	25	φ 62.5	φ 67.5	B1	25	φ10	φ52	20	45	948.6 (g)
● SGE2.5S 28B - 2510	28	φ 70	φ 75	B1	25	φ10	φ60	20	45	1.17
● SGE2.5S 30B - 2512	30	φ 75	φ 80	B1	25	φ12	φ65	20	45	1.34
● SGE2.5S 32B - 2512	32	φ 80	φ 85	B1	25	φ12	φ70	20	45	1.55
● SGE2.5S 35B - 2512	35	φ 87.5	φ 92.5	B1	25	φ12	φ70	20	45	1.75
● SGE2.5S 36B - 2512	36	φ 90	φ 95	B1	25	φ12	φ70	20	45	1.82
● SGE2.5S 40B - 2512	40	φ100	φ105	B1	25	φ12	φ70	20	45	2.10

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 Products with ● marks are new item.

Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
14	25	3.21	6.14	8.60	10.25	11.89	15.69	18.29
15	25	3.64	6.89	9.61	11.42	13.35	17.56	20.53
16	25	4.06	7.61	10.58	12.61	14.75	19.40	22.68
18	25	4.87	8.95	12.35	14.89	17.36	22.89	26.68
20	25	5.68	10.28	14.18	17.16	19.97	26.38	30.67
24	25	7.23	12.88	17.96	21.62	25.24	33.21	38.73
25	25	7.61	13.51	18.89	22.72	26.56	34.93	40.73
28	25	8.77	15.38	21.68	26.13	30.51	40.13	46.66
30	25	9.52	16.68	23.49	28.39	33.09	43.52	50.51
32	25	10.27	18.02	25.29	30.63	35.64	46.89	54.84
35	25	11.39	20.00	28.10	33.95	39.47	51.86	61.67
36	25	11.75	20.66	29.03	35.04	40.77	53.50	63.96
40	25	13.20	23.25	32.71	39.35	45.89	61.00	73.20

歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

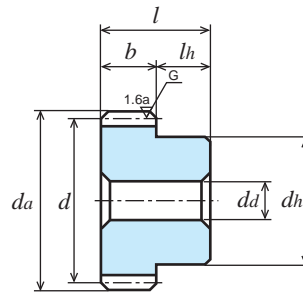
回転速度 (min ⁻¹) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
0.69	1.36	1.94	2.34	2.73	3.66	4.30
0.80	1.56	2.21	2.65	3.13	4.17	4.92
0.91	1.76	2.50	3.01	3.55	4.73	5.57
1.17	2.21	3.11	3.79	4.45	5.95	7.00
1.45	2.71	3.80	4.65	5.45	7.31	8.56
2.08	3.83	5.43	6.60	7.77	10.37	12.19
2.26	4.13	5.88	7.14	8.41	11.22	13.19
2.82	5.10	7.31	8.90	10.48	13.98	16.39
3.23	5.82	8.35	10.19	11.97	15.97	18.69
3.66	6.61	9.44	11.55	13.55	18.08	21.32
4.35	7.87	11.26	13.73	16.10	21.46	25.72
4.59	8.32	11.90	14.50	17.00	22.64	27.28
5.61	10.20	14.60	17.74	20.86	28.13	34.02

The above references are JGMA standard.

齒研平齒車 GROUND SPUR GEARS

モジュール **2.5** 圧力角 20° (並歯)
MODULE 2.5 20° PRESSURE ANGLE FULL DEPTH TOOTH

歯部高周波焼き入れ HRC47 ~ 53
JIS B 1702-1 (ISO) 7級
System of accuracy : JIS B 1702-1(ISO) class 7



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051) Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE2.5S 45B - 2515	45	φ112.5	φ117.5	B1	25	φ15	φ 75	20	45	2.58
● SGE2.5S 48B - 2515	48	φ120	φ125	B1	25	φ15	φ 80	20	45	2.95
● SGE2.5S 50B - 2515	50	φ125	φ130	B1	25	φ15	φ 90	20	45	3.33
● SGE2.5S 55B - 2515	55	φ137.5	φ142.5	B1	25	φ15	φ 95	20	45	3.97
● SGE2.5S 56B - 2515	56	φ140	φ145	B1	25	φ15	φ 95	20	45	4.08
● SGE2.5S 60B - 2515	60	φ150	φ155	B1	25	φ15	φ105	20	45	4.75
● SGE2.5S 64B - 2520	64	φ160	φ165	B1	25	φ20	φ110	20	45	5.33
● SGE2.5S 70B - 2520	70	φ175	φ180	B1	25	φ20	φ125	20	45	6.52
● SGE2.5S 72B - 2520	72	φ180	φ185	B1	25	φ20	φ125	20	45	6.82
● SGE2.5S 75B - 2520	75	φ187.5	φ192.5	B1	25	φ20	φ130	20	45	7.24
● SGE2.5S 80B - 2520	80	φ200	φ205	B1	25	φ20	φ140	20	45	8.45

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Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
45	25	14.94	26.39	37.17	44.76	52.10	70.67	84.80
48	25	15.96	28.24	39.80	47.98	55.75	76.54	91.85
50	25	16.62	29.53	41.53	50.10	58.15	80.47	96.56
55	25	18.25	32.72	45.94	55.31	65.04	90.34	108.41
56	25	18.57	33.35	46.81	56.34	66.47	92.32	110.78
60	25	19.94	35.84	50.29	60.38	72.19	100.27	120.32
64	25	21.34	38.30	53.70	64.95	77.94	108.25	-
70	25	23.40	41.90	58.71	72.16	86.59	120.27	-
72	25	24.08	43.08	60.35	74.57	89.49	124.28	-
75	25	25.10	44.84	62.78	78.19	93.83	130.32	-
80	25	26.76	47.82	67.40	84.25	101.10	-	-

The above references are JGMA standard.

歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
7.02	12.79	18.33	22.30	26.16	36.00	43.54
7.93	14.46	20.75	25.26	29.59	41.21	49.85
8.56	15.67	22.43	27.33	31.97	44.89	54.30
10.22	18.89	26.99	32.81	38.90	54.81	66.30
10.56	19.56	27.95	33.96	40.40	56.90	68.85
12.07	22.36	31.94	38.73	46.68	65.77	79.56
13.70	25.33	36.17	44.17	53.44	75.29	-
16.31	30.11	42.94	53.30	64.47	90.84	-
17.23	31.78	45.31	56.54	68.39	96.36	-
18.65	34.35	48.97	61.59	74.50	104.97	-
21.13	38.93	55.85	70.50	85.28	-	-

齒研平齒車

GROUND SPUR GEARS

モジュール
MODULE

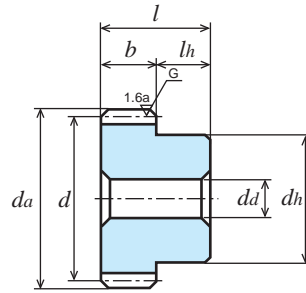
3

圧力角 20° (並歯)
20° PRESSURE ANGLE FULL DEPTH TOOTH

歯部高周波焼き入れ HRC47 ~ 53
JIS B 1702-1 (ISO) 7級
System of accuracy : JIS B 1702-1(ISO) class 7



御注文には必ず“フルネームで商品記号”を明記してください。
Please refer to the catalogue reference while ordering.



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE3S 14B - 3012	14	φ 42	φ 48	B1	30	φ12	φ34	20	50	0.43
● SGE3S 15B - 3012	15	φ 45	φ 51	B1	30	φ12	φ36	20	50	0.49
● SGE3S 16B - 3012	16	φ 48	φ 54	B1	30	φ12	φ40	20	50	0.58
● SGE3S 18B - 3012	18	φ 54	φ 60	B1	30	φ12	φ46	20	50	0.76
● SGE3S 20B - 3012	20	φ 60	φ 66	B1	30	φ12	φ52	20	50	0.95
● SGE3S 24B - 3012	24	φ 72	φ 78	B1	30	φ12	φ60	20	50	1.36
● SGE3S 25B - 3012	25	φ 75	φ 81	B1	30	φ12	φ60	20	50	1.43
● SGE3S 28B - 3012	28	φ 84	φ 90	B1	30	φ12	φ70	20	50	1.87
● SGE3S 30B - 3012	30	φ 90	φ 96	B1	30	φ12	φ75	20	50	2.13
● SGE3S 32B - 3015	32	φ 96	φ102	B1	30	φ15	φ75	20	50	2.33
● SGE3S 35B - 3015	35	φ105	φ111	B1	30	φ15	φ80	20	50	2.76
● SGE3S 36B - 3015	36	φ108	φ114	B1	30	φ15	φ80	20	50	2.88
● SGE3S 40B - 3015	40	φ120	φ126	B1	30	φ15	φ85	20	50	3.47

● の商品は新商品です。
Products with ● marks are new item.

Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
14	30	5.55	10.31	14.30	17.13	20.01	26.34	30.75
15	30	6.29	11.55	15.95	19.22	22.42	29.56	34.45
16	30	7.01	12.74	17.53	21.24	24.74	32.66	38.00
18	30	8.31	14.94	20.70	25.00	29.06	38.42	44.70
20	30	9.61	17.12	23.88	28.75	33.56	44.16	51.50
24	30	12.19	21.34	30.11	36.34	42.40	55.77	64.80
25	30	12.83	22.47	31.65	38.25	44.59	58.65	68.07
28	30	14.74	25.87	36.33	43.93	51.06	67.19	79.27
30	30	15.98	28.09	39.47	47.64	55.43	72.74	86.96
32	30	17.21	30.30	42.61	51.32	59.80	78.97	94.76
35	30	19.03	33.57	47.25	56.84	66.26	88.80	106.56
36	30	19.63	34.64	48.78	58.70	68.39	92.10	110.52
40	30	21.97	38.89	54.81	66.08	76.77	105.40	126.48

The above references are JGMA standard.

歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

		回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
14	30	1.21	2.33	3.28	3.97	4.68	6.25	7.35
15	30	1.40	2.66	3.73	4.54	5.34	7.15	8.40
16	30	1.61	3.01	4.21	5.15	6.05	8.10	9.50
18	30	2.03	3.76	5.31	6.47	7.58	10.17	11.93
20	30	2.50	4.59	6.52	7.92	9.32	12.44	14.63
24	30	3.57	6.45	9.26	11.29	13.28	17.72	20.75
25	30	3.87	6.99	10.02	12.23	14.36	19.17	22.43
28	30	4.82	8.72	12.47	15.23	17.85	23.82	28.33
30	30	5.51	9.98	14.28	17.40	20.40	27.16	32.74
32	30	6.23	11.31	16.19	19.69	23.13	30.98	37.48
35	30	7.39	13.44	19.26	23.40	27.50	37.38	45.22
36	30	7.80	14.19	20.34	24.72	29.02	39.66	47.97
40	30	9.51	17.36	24.90	30.31	35.50	49.45	59.82

齒研平齒車

GROUND SPUR GEARS

モジュール
MODULE

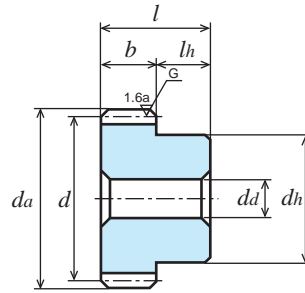
3

圧力角 20° (並齒)
20° PRESSURE ANGLE FULL DEPTH TOOTH

齒部高周波焼き入れ HRC47 ~ 53
JIS B 1702-1 (ISO) 7級
System of accuracy : JIS B 1702-1(ISO) class 7



御注文には必ず“フルネームで商品記号”を明記してください。
Please refer to the catalogue reference while ordering.



B1形
TYPE B1

S45C 機械構造用炭素鋼 (JIS G 4051)

Material : Carbon Steel (ISO C45)

単位 : mm
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	齒先円直径 Tip Diameter <i>da</i>	形 Type	齒幅 Face Width <i>b</i>	穴径 Bore Diameter <i>di</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
● SGE3S 45B - 3015	45	φ135	φ141	B1	30	φ15	φ90	20	50	4.31
● SGE3S 48B - 3015	48	φ144	φ150	B1	30	φ15	φ100	20	50	5.01
● SGE3S 50B - 3015	50	φ150	φ156	B1	30	φ15	φ105	20	50	5.43
● SGE3S 55B - 3015	55	φ165	φ171	B1	30	φ15	φ120	20	50	6.75
● SGE3S 56B - 3015	56	φ168	φ174	B1	30	φ15	φ120	20	50	6.94
● SGE3S 60B - 3015	60	φ180	φ186	B1	30	φ15	φ130	20	50	7.98
● SGE3S 64B - 3020	64	φ192	φ198	B1	30	φ20	φ130	20	50	8.79
● SGE3S 70B - 3020	70	φ210	φ216	B1	30	φ20	φ150	20	50	10.78
● SGE3S 72B - 3020	72	φ216	φ222	B1	30	φ20	φ150	20	50	11.30
● SGE3S 75B - 3020	75	φ225	φ231	B1	30	φ20	φ160	20	50	12.03
● SGE3S 80B - 3020	80	φ240	φ246	B1	30	φ20	φ170	20	50	14.06

●の商品は新商品です。
Products with ● marks are new item.

Gear tooth surface completed with induction hardening, Hardness HRC47 to 53.

許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	齒幅 <i>b</i>	回転速度 (min ⁻¹) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
45	30	24.78	44.34	62.27	75.02	87.93	122.12	146.54
48	30	26.43	47.57	66.77	80.28	95.23	132.26	158.85
50	30	27.65	49.70	69.74	83.74	100.12	139.05	166.86
55	30	30.64	54.94	77.03	93.66	112.40	156.10	-
56	30	31.23	55.98	78.46	95.72	114.86	159.53	-
60	30	33.58	60.06	84.13	103.96	124.75	173.26	-
64	30	35.88	64.08	89.78	112.23	134.68	-	-
70	30	39.28	70.25	99.75	124.69	149.63	-	-
72	30	40.39	72.28	103.09	128.86	154.63	-	-
75	30	42.04	75.29	108.09	135.12	162.14	-	-
80	30	44.76	80.24	116.46	145.58	174.69	-	-

齒面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min ⁻¹) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
11.85	21.86	31.25	38.02	44.92	63.29	76.56
13.36	24.79	35.42	43.00	51.42	72.45	87.64
14.48	26.84	38.33	46.48	56.01	78.92	95.47
17.45	32.27	46.04	56.54	68.39	96.37	-
18.08	33.40	47.66	58.71	71.02	100.07	-
20.68	38.13	54.37	67.85	82.07	115.64	-
23.44	43.14	61.53	77.67	93.95	-	-
27.86	51.36	74.24	93.71	113.35	-	-
29.4	54.25	78.75	99.41	120.25	-	-
31.79	58.70	85.78	108.28	130.98	-	-
35.97	66.47	98.20	123.96	149.95	-	-

The above references are JGMA standard.