

Properties for Sintered Samarium Cobalt Magnet.

燒結鈔鈷磁石特性表

New Favor Industry Co., Ltd.

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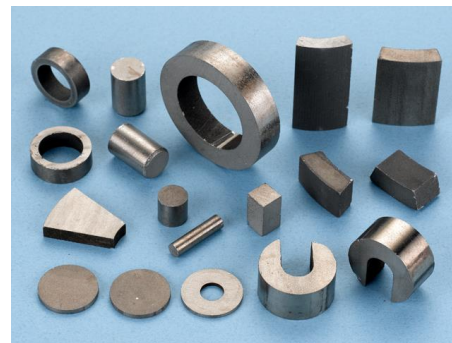
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Property Grade	Br(Min.) 剩磁 T / KGs	bHc 矯頑力 KA/m / KOe	iHc 矯頑力 KA/m / KOe	最大磁能積 (BHMax) KJ/m3 / MGOe	居里溫度 Curie Temp. C°	最高工作溫度 Max Working Temp. /C°	Coeff. of Br (%/C°)
SM16 (1:5)	0.81-0.85 / 8.1-8.5	620-660 / 7.8-8.3	1194-1830 / 15-23	110-127 / 14-16	750	250	-0.050
SM18 (1:5)	0.85-0.90 / 8.5-9.0	660-700 / 8.3-8.8	1194-1830 / 15-23	127-143 / 16-18	750	250	-0.050
SM20 (1:5)	0.90-0.94 / 9.0-9.4	680-725 / 8.5-9.1	1194-1830 / 15-23	150-167 / 19-21	750	250	-0.050
SM22 (1:5)	0.92-0.96 / 9.2-9.6	710-750 / 8.9-9.4	1194-1830 / 15-23	160-175 / 20-22	750	250	-0.050
SM24 (1:5)	0.96-1.0 / 9.6-10.0	730-770 / 9.2-9.7	1194-1830 / 15-23	175-190 / 22-24	750	250	-0.050
SM22 (2:17)	0.93-0.97 / 9.3-9.7	676-740 / 8.5-9.3	≥ 1433 / ≥ 18	160-183 / 20-23	800	300	-0.020
SM24 (2:17)	0.95-1.02 / 9.5-10.2	700-750 / 8.7-9.4	≥ 1433 / ≥ 18	175-191 / 22-24	800	300	-0.025
SM24H (2:17)	0.95-1.02 / 9.5-10.2	700-750 / 8.7-9.4	≥ 1990 / ≥ 25	175-191 / 22-24	800	350	-0.025
SM24L (2:17)	0.95-1.02 / 9.5-10.2	557-716 / 7.0-9.0	636-955 / 8-12	175-191 / 22-24	800	250	-0.025
SM26 (2:17)	1.02-1.05 / 10.2-10.5	750-780 / 9.4-9.8	≥ 1433 / ≥ 18	191-207 / 24-26	800	300	-0.030
SM26H (2:17)	1.02-1.05 / 10.2-10.5	750-780 / 9.4-9.8	≥ 1990 / ≥ 25	191-207 / 24-26	800	350	-0.030
SM26M (2:17)	1.02-1.05 / 10.2-10.5	716-780 / 9.0-9.8	955-1273 / 12-16	191-207 / 24-26	800	300	-0.035
SM26L (2:17)	1.02-1.05 / 10.2-10.5	557-748 / 7.0-9.4	636-955 / 8-12	191-207 / 24-26	800	250	-0.035
SM28 (2:17)	1.03-1.08 / 10.3-10.8	756-796 / 9.5-10.0	≥ 1433 / ≥ 18	207-220 / 26-28	800	300	-0.035
SM28H (2:17)	1.03-1.08 / 10.3-10.8	756-796 / 9.5-10.0	≥ 1990 / ≥ 25	207-220 / 26-28	800	350	-0.035
SM28M (2:17)	1.03-1.08 / 10.3-10.8	716-796 / 9.0-10.0	955-1273 / 12-16	207-220 / 26-28	800	300	-0.035
SM28L (2:17)	1.03-1.08 / 10.3-10.8	557-765 / 7.0-9.6	636-955 / 8-12	207-220 / 26-28	800	250	-0.035
SM30 (2:17)	1.08-1.10 / 10.8-11.0	788-835 / 9.9-10.5	≥ 1433 / ≥ 18	220-240 / 28-30	800	300	-0.035
SM30H (2:17)	1.08-1.10 / 10.8-11.0	788-835 / 9.9-10.5	≥ 1990 / ≥ 25	220-240 / 28-30	800	350	-0.035
SM30M (2:17)	1.08-1.10 / 10.8-11.0	716-835 / 9.0-10.5	955-1273 / 12-16	220-240 / 28-30	800	300	-0.035
SM30L (2:17)	1.08-1.15 / 10.8-11.5	557-795 / 7.0-10.0	636-955 / 8-12	220-240 / 28-30	800	250	-0.035
SM32 (2:17)	1.10-1.13 / 11.0-11.3	811-845 / 10.2-10.6	≥ 1194 / ≥ 15	230-255 / 29-32	800	300	-0.035
SM32M (2:17)	1.10-1.13 / 11.0-11.3	716-845 / 9.0-10.6	955-1273 / 12-16	230-255 / 29-32	800	300	-0.035
SM32L (2:17)	1.10-1.15 / 11.0-11.5	557-810 / 7.0-10.2	636-955 / 8-12	230-255 / 29-32	800	250	-0.035

PRODUCT ADVANTAGE:

1. Samarium Cobalt Magnet is superior in high coercivity, therefore it is more durable if operating in high working temperature.
2. The new series Sm2Co17 has higher Energy product than the 1-5 type. Though the total energy product is lower than Nd-Fe-B magnet, but it has superior temperature stability than the Nd-Fe-B series.
3. The Samarium Cobalt Magnet is more enduring in moisture environment than the Nd-Fe-B series.
4. Can be used in most smaller, lightweight and thinner design products.