

Magnetic Properties of Sintered SmCo Magnets--UK Market

Grade	Remanence Br		Coercive force Hcb		Intrinsic Coercive force Hcj		Maximum Energy (BH)max		Tc.	Tw.	α(Br)	α(Hcj)
	KGs	T	KOe	KA/m	KOe	KA/m	MGOe	KJ/m ³	°C	°C	%/°C	%/°C
RECo5 (119/127)	8.1-8.3	0.81-0.83	7.8	620	16	1274	15-16	119-127	750	250	-0.04	-0.3
RECo5 135/127	8.4-8.7	0.84-0.87	8.1	645	16	1274	17-18	135-143	750	250	-0.04	-0.3
RECo5 151/127	8.9-9.2	0.89-0.92	8.5	680	16	1274	19-20	151-159	750	250	-0.04	-0.3
RECo5 159/127	9.3-9.5	0.93-0.95	8.9	710	16	1274	20-21	159-167	750	250	-0.04	-0.3
RECo5 175/119	9.6-9.8	0.96-0.98	9.2	730	15	1194	22-23	175-183	750	250	-0.04	-0.3
RE(Sm)Co5 151/104	8.9-9.2	0.89-0.92	8.5	680	13	1035	19-20	151-159	750	250	-0.04	-0.3
RE(Sm)Co5 159/104	9.3-9.5	0.93-0.95	8.9	710	13	1035	20-21	159-167	750	250	-0.04	-0.3
RE(Sm)Co5 151/159	8.9-9.2	0.89-0.92	8.5	680	20	1592	19-20	151-159	750	250	-0.04	-0.3
RE(Sm)Co5 159/159	9.3-9.5	0.93-0.95	8.9	710	20	1592	20-21	159-167	750	250	-0.04	-0.3
RE(Sm)Co5 175/119	9.6-9.8	0.96-0.98	9.2	730	15	1194	22-23	175-183	750	250	-0.04	-0.3
RE2Co17 175/199	9.6-9.9	0.96-0.99	8.7	700	25	1990	22-23	175-183	820	350	-0.03	-0.2
RE2Co17 175/143	9.6-9.9	0.96-0.99	8.7	700	18	1433	22-23	175-183	820	350	-0.03	-0.2
RE2Co17 191/199	10.2-10.4	1.02-1.04	9.4	750	25	1990	24-25	191-199	820	350	-0.03	-0.2
RE2Co17 191/143	10.2-10.4	1.02-1.04	9.4	750	18	1433	24-25	191-199	820	350	-0.03	-0.2
RE2Co17 191/80	10.2-10.4	1.02-1.04	9.4	750	10-16	796-1273	24-25	191-199	820	350	-0.03	-0.2

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	KGs	T	KOe	KA/m	KOe	KA/m	MGOe	KJ/m ³	°C	°C	%/°C	%/°C
RE2Co17 207/199	10.4-10.7	1.04-1.07	9.5	756	25	1990	26-27	207-215	820	350	-0.03	-0.2
RE2Co17 207/143	10.4-10.7	1.04-1.07	9.5	756	18	1433	26-27	207-215	820	350	-0.03	-0.2
RE2Co17 207/80	10.4-10.7	1.04-1.07	9.5	756	10-16	796-1273	26-27	207-215	820	350	-0.03	-0.2
RE2Co17 207/44	10.4-10.7	1.04-1.07	5.2-9.0	413-716	5.5-10.0	438-796	26-27	207-215	820	350	-0.03	-0.2
RE2Co17 222/199	10.8-11.0	1.08-1.10	9.9	788	25	1990	28-30	222-239	820	350	-0.03	-0.2
RE2Co17 222/143	10.8-11.0	1.08-1.10	9.9	788	18	1433	28-30	222-239	820	350	-0.03	-0.2
RE2Co17 222/80	10.8-11.0	1.08-1.10	9.9	788	5.5-10.0	796-1273	28-30	222-239	820	350	-0.03	-0.2
RE2Co17 222/44	10.8-11.0	1.08-1.10	5.2-9.0	413-716	5.5-10.0	438-796	28-30	222-239	820	350	-0.03	-0.2
RE2Co17 239/143	11.0-11.2	1.10-1.12	9.7	772	18	1433	30-32	239-255	820	350	-0.03	-0.2
RE2Co17 239/80	11.0-11.2	1.10-1.12	9.7	772	10-16	796-1273	30-32	239-255	820	350	-0.03	-0.2
RE2Co17 239/44	11.0-11.2	1.10-1.12	5.2-9.0	413-716	5.5-10.0	438-796	30-32	239-255	820	350	-0.03	-0.2

Note:

1. The data mentioned above of magnetic performance and physical properties are given at room temperature 20°C.
2. Curie temperature and temperature coefficient are for reference only, but not as an inspection items.
3. The max working temperature is changeable due to length-diameter ratio, coating thickness and environment factors.