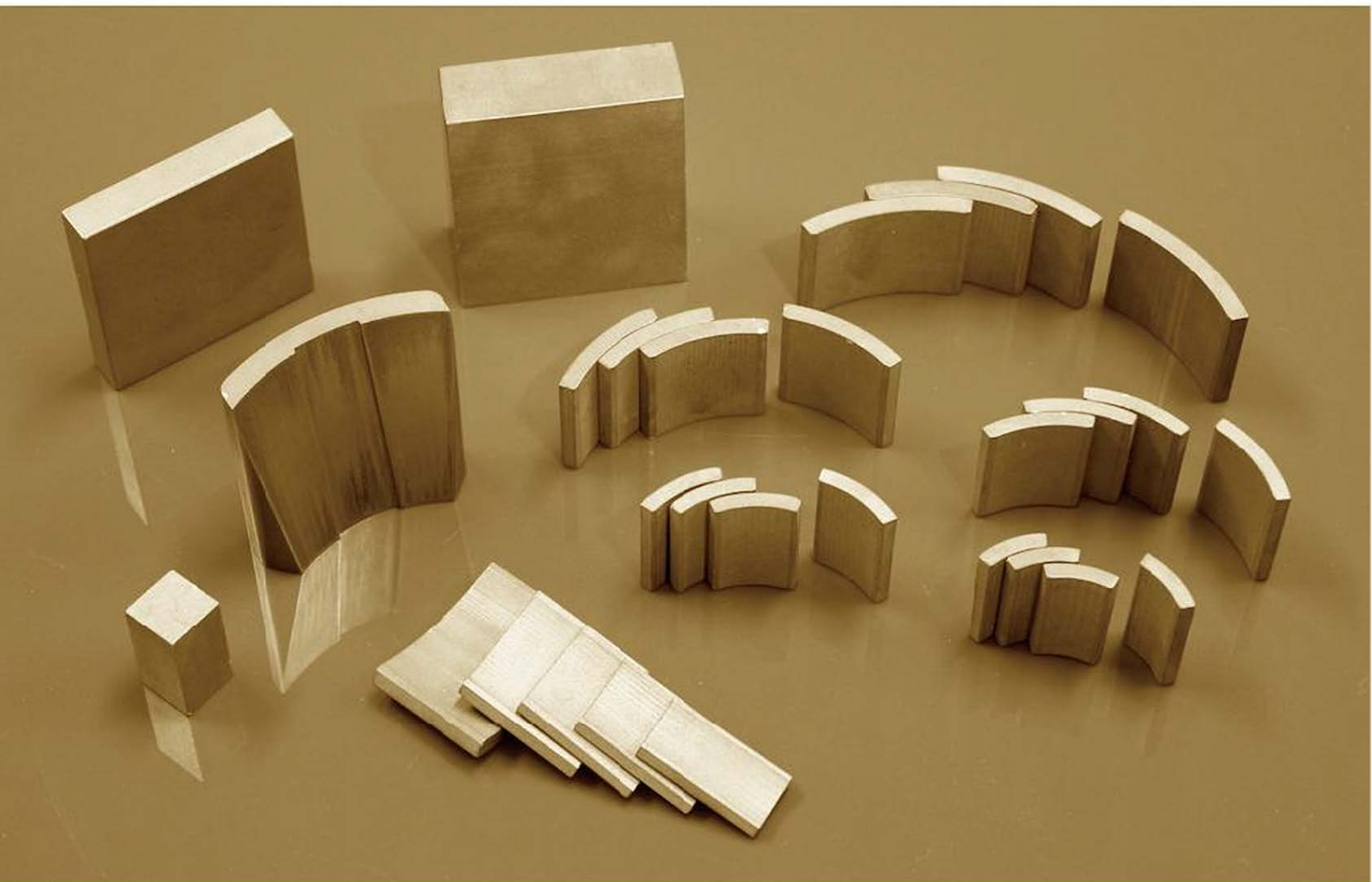


SmCo

Samarium Cobalt

Samarium Cobalt magnets are produced in sintered as well as bonded forms. Sintered Samarium Cobalt magnets have an energy product ranging from 18 to 30 MGOe. These alloys have the highest energy products at high temperatures, very high Curie temperatures, and low temperature coefficients of induction and coercivity. The content of Cobalt in these alloys is greater than 70%, making this family of permanent magnets one of the more expensive.



Magnetic Properties of SmCo Magnets

Item	Grade	Remanence		Coercivity				Max Energy Product		Max Working Temperature
		B_r		H_{c2}		H_{cJ}		$(BH)_{max}$		T_w Max
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	° C
Sm1Co5	Sm ₁ Co ₅ -20	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	151-167	19-21	≤250
	Sm ₁ Co ₅ -22	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	159-175	20-22	≤250
	Sm ₁ Co ₅ -24	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	175-191	22-24	≤250
Sm ₂ Co ₁₇	Sm ₂ Co ₁₇ -30L	1.08-1.10	10.8-11.0	541-796	6.8-10.0	636-955	8-12	223-239	28-30	≤250
	Sm ₂ Co ₁₇ -32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	231-255	29-32	≤250
	Sm ₂ Co ₁₇ -30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	223-239	28-30	≤300
	Sm ₂ Co ₁₇ -32M	1.10-1.15	11.0-11.5	676-852	8.5-10.7	955-1433	12-18	231-255	29-32	≤300
	Sm ₂ Co ₁₇ -28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-223	26-28	≤300
	Sm ₂ Co ₁₇ -30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	223-239	28-30	≤300
	Sm ₂ Co ₁₇ -32	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1433	≥18	231-255	29-32	≤300
	Sm ₂ Co ₁₇ -28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-223	26-28	≤350
	Sm ₂ Co ₁₇ -30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	223-239	28-30	≤350
Sm ₂ Co ₁₇ -32H	1.10-1.15	11.0-11.5	812-860	10.2-10.8	≥1990	≥25	231-255	29-32	≤350	

1. The above-mentioned data of magnetic parameters and physical properties are given at room temperature.
2. The above values also have relationship to products shapes and dimensions. It is recommended that the final test data to be fixed on actual products.
3. For other special magnetic parameters, please contact us, and we can make them to your specifications.