

# SmCo (sintered)

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## Property Table

English Version  
For reference only

- Remanence ( $B_r$ ), measure the strength of the magnetic field;
- Coercivity ( $H_{cb}$  /  $H_{cj}$ ), the material's resistance to becoming demagnetized;
- Energy product ( $BH_{max}$ ), the density of magnetic energy, which relates to the magnetic flux output per unit volume. Higher values indicate stronger magnets
- Curie temperature ( $T_c$ ), the temperature at which the material loses its magnetism.

**Sintered SmCo - Property Table - CGS unit**

Grade	(min.) Remanence (Br) kGs	(min.) Intrinsic Coercivity (Hcj) kOe	(min.) Coercivity (Hcb) kOe	Max Energy Product (BH)max MGOe	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C
SmCo16	8.3	18.0	8.0	16	250	750
SmCo18	8.8	18.0	8.5	18	250	750
SmCo20	9.2	18.0	8.7	20	250	750
SmCo22	9.4	18.0	9.1	22	250	750
SmCo24	9.8	18.0	9.1	24	300	750-820
SmCo26	10.3	18.0	9.5	26	300	750-820
SmCo28	10.5	18.5	9.7	28	300	750-820
SmCo30	11.0	18.5	10.1	30	300	750-820
SmCo26M	10.3	15.0	9.5	26	300	750-820
SmCo28M	10.5	15.0	9.7	28	300	750-820
SmCo30M	11.0	15.0	10.1	30	300	750-820
SmCo28L	10.5	8.0	6.9	28	250	750-820
SmCo30L	11.0	8.0	6.9	30	250	750-820
SmCo24H	10.0	25.0	9.0	24	350	750-820
SmCo26H	10.3	25.0	9.5	26	350	750-820
SmCo28H	10.5	25.0	9.6	28	350	750-820
SmCo30H	10.8	25.0	10.1	30	350	750-820

\*SmCo 16-22, Sm:Co=1:5; the rest grades Sm:Co=2:17

\*for reference only

**Sintered SmCo - Property Table - SI unit**

Grade	(min.) Remanence (Br) mT	(min.) Intrinsic Coercivity (Hcj) kA/m	(min.) Coercivity (Hcb) kA/m	Max Energy Product (BH)max kJ/m <sup>3</sup>	Max Working Temperature (Tw) °C	Curie Temperature (Tc) °C
SmCo16	830	1430	640	128	250	750
SmCo18	880	1430	680	144	250	750
SmCo20	920	1430	700	160	250	750
SmCo22	940	1450	730	176	250	750
SmCo24	980	1450	730	192	300	750-820
SmCo26	1030	1450	760	208	300	750-820
SmCo28	1050	1450	780	224	300	750-820
SmCo30	1100	1450	810	240	300	750-820
SmCo26M	1030	1100	760	208	300	750-820
SmCo28M	1050	1100	780	224	300	750-820
SmCo30M	1100	1100	810	240	300	750-820
SmCo28L	1050	700	550	224	250	750-820
SmCo30L	1100	700	550	240	250	750-820
SmCo24H	1000	2000	720	192	350	750-820
SmCo26H	1030	2000	760	208	350	750-820
SmCo28H	1050	2000	770	224	350	750-820
SmCo30H	1080	2000	810	240	350	750-820

\*SmCo 16-22, Sm:Co=1:5; the rest grades Sm:Co=2:17

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