

Grade	Maximum	Residual	Minimum	Coercivity	Maximum	Curie Temp	Coefficient Induction 20-150° C	Coefficient Coercivity 20-150° C
	Energy	Induction	Intrinsic		Operating			
	Product		Coercivity		Temp			
	<b>BH<sub>max</sub></b>	<b>B<sub>r</sub></b>	<b>H<sub>ci</sub></b>	<b>H<sub>c</sub></b>	<b>T<sub>mo</sub></b>	<b>T<sub>c</sub></b>	<b>α</b>	<b>β</b>
	<b>kJ/m<sup>3</sup></b>	<b>mT</b>	<b>kA/m</b>	<b>kA/m</b>	<b>°C</b>	<b>°C</b>	<b>% / °C</b>	<b>% / °C</b>
<b>Type 2:17</b>								
S3010	238.7	1120	795.8	732.1	300	825	-0.03	-0.17
S2610	206.9	1050	795.8	700.3	300	825	-0.03	-0.17
S3212	254.6	1150	954.9	795.8	300	825	-0.03	-0.17
S3012	238.7	1130	954.9	779.9	300	825	-0.03	-0.17
S2612	206.9	1060	954.9	748.0	300	825	-0.03	-0.17
S2212	175.1	990	954.9	716.2	300	825	-0.03	-0.17
S3315	262.6	1170	1193.7	851.5	300	825	-0.03	-0.22
S3215	254.6	1150	1193.7	835.6	300	825	-0.03	-0.22
S3015	238.7	1130	1193.7	819.6	300	825	-0.03	-0.22
S2816	222.8	1100	1273.2	819.6	300	825	-0.03	-0.22
S2616	206.9	1080	1273.2	803.7	300	825	-0.03	-0.22
S3218	254.6	1160	1432.4	859.4	300	825	-0.03	-0.22
S3018	238.7	1130	1432.4	843.5	300	825	-0.03	-0.22
S2618	206.9	1070	1432.4	803.7	300	825	-0.03	-0.22
S2820	222.8	1100	1591.5	827.6	300	825	-0.03	-0.22
S2620	206.9	1080	1591.5	819.6	300	825	-0.03	-0.22
S2825	222.8	1110	1989.4	835.6	300	825	-0.03	-0.22
S2625	206.9	1080	1989.4	811.7	300	825	-0.03	-0.22
S2425	191.0	1030	1989.4	779.9	350	825	-0.03	-0.22
S2225	175.1	970	1989.4	732.1	350	825	-0.03	-0.22
S2830	222.8	1100	2387.3	835.6	300	825	-0.03	-0.22
S2630	206.9	1080	2387.3	819.6	300	825	-0.03	-0.22
S2430	191.0	1030	2387.3	779.9	350	825	-0.03	-0.22
S2230	175.1	970	2387.3	740.1	350	825	-0.03	-0.22
S2435	191.0	1030	2785.2	787.8	350	825	-0.03	-0.22
S2235	175.1	970	2785.2	740.1	350	825	-0.03	-0.22
<b>Type 1:5</b>								
S2415	191.0	1000	1193.7	740.1	250	750	-0.05	-0.22
S2215	175.1	950	1193.7	700.3	250	750	-0.05	-0.22
S2218	175.1	950	1432.4	716.2	250	750	-0.05	-0.22
S2018	159.2	900	1432.4	676.4	250	750	-0.05	-0.22
S1818	143.2	860	1432.4	652.5	250	750	-0.05	-0.22
S2220	175.1	950	1591.5	724.2	250	750	-0.05	-0.22
S2020	159.2	900	1591.5	684.4	250	750	-0.05	-0.22
S1820	143.2	860	1591.5	652.5	250	750	-0.05	-0.22
S2223	175.1	950	1830.3	724.2	250	750	-0.05	-0.22
S2025	159.2	900	1989.4	684.4	250	750	-0.05	-0.22
S1825	143.2	860	1989.4	652.5	250	750	-0.05	-0.22
S2030	159.2	900	2387.3	684.4	250	750	-0.05	-0.22

## Typical Physical Properties – Type 2:17

Curie Temperature	800 – 825 °C
Coefficient of Thermal Expansion - Perpendicular	+11.0 – +12.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Coefficient of Thermal Expansion - Parallel	+9.0 – +10.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Electrical Resistivity	80 – 90 μΩ·cm
Density	8.3 – 8.4 g·cm <sup>-3</sup>
Vicker's Hardness	550 – 650 H <sub>v</sub>
Young's Modulus	140 – 150 kN·mm <sup>-2</sup>
Bending Strength	0.09 – 0.15 kN·mm <sup>-2</sup>
Compressive Strength	0.65 – 0.80 kN·mm <sup>-2</sup>

## Typical Physical Properties – Type 1:5

Curie Temperature	720 – 750 °C
Coefficient of Thermal Expansion - Perpendicular	+12.0 – +13.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Coefficient of Thermal Expansion - Parallel	+6.0 – +7.0 x 10 <sup>-6</sup> °C <sup>-1</sup>
Electrical Resistivity	50 – 60 μΩ·cm
Density	8.2 – 8.3 g·cm <sup>-3</sup>
Vicker's Hardness	500 – 550 H <sub>v</sub>
Young's Modulus	100 – 110 kN·mm <sup>-2</sup>
Bending Strength	0.12 – 0.18 kN·mm <sup>-2</sup>
Compressive Strength	0.9 – 1.0 kN·mm <sup>-2</sup>