STRONG MAGNETS
Solution of Magnetic

Ferrite

Property Table

English Version
For reference only

- Remanence (Br), measure the strength of the magnetic field;
- Coercivity (Hcb / Hcj), the material's resistance to becoming demagnetized;
- Energy product (BHmax), the density of magnetic energy, which relates to the magnetic flux output per unit volume. Higher values indicate stronger magnets
- Curie temperature (Tc), the temperature at which the material loses its magnetism.

Updated on: May.20, 2014

Ferrite - Property Table - CGS unit

Grade	(range) Remanence (Br)	(range) Intrinsic Coercivity (Hcj)	(range) Coercivity (Hcb)	Max Energy Product (BH)max	Max Working Temperature (Tw)	Curie Temperature (Tc)
	kGs	kOe	kOe	MGOe	℃	℃
Y20	3.2-3.8	1.76-2.45	1.70-2.38	2.30	250	450
Y25	3.6-4.0	1.76-2.51	1.70-2.14	2.80	250	450
Y30	3.8-3.85	2.5-2.51	2.4-2.64	3.40	250	450
Y30BH	3.8-3.9	2.90-3.08	2.80-2.95	3.40	250	450
Y30H-1	3.8-4.0	2.95-3.65	2.89-3.46	3.40	250	450
Y30H-2	3.95-4.15	3.9-4.21	3.46-3.77	3.50	250	450
Y32	4.0-4.2	2.07-2.45	2.01-2.38	3.80	250	450
Y33	4.1-4.3	2.83-3.20	2.77-3.14	4.00	250	450
Y35	4.3-4.5	2.73-3.03	2.70-3.00	4.20	250	450
Y40	4.4-4.6	4.27-4.52	4.15-4.45	4.40	250	450

*for reference only

Ferrite - Property Table - SI unit

Grade	(range) Remanence (Br)	(range) Intrinsic Coercivity (Hcj)	(range) Coercivity (Hcb)	Max Energy Product (BH)max	Max Working Temperature (Tw)	Curie Temperature (Tc)
	mT	kA/m	kA/m	kJ/m^3	℃	℃
Y20	320-380	140-195	135-190	18.0	250	450
Y25	360-370	140-200	135-190	22.5	250	450
Y30	380-385	200-220	190-210	26.0	250	450
Y30BH	380-390	230-245	223-235	27.0	250	450
Y30H-1	380-400	235-290	230-275	27.0	250	450
Y30H-2	395-415	310-335	275-300	28.5	250	450
Y32	400-420	165-195	160-190	30.5	250	450
Y33	410-430	225-255	220-250	31.5	250	450
Y35	430-450	217-241	215-239	33.0	250	450
Y40	440-460	340-360	330-345	37.6	250	450

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