

[SmCo Magnets Specifications](#)

[NdFeB Magnets Specifications](#)

[Ferrite Magnet Specifications](#)

[Bonded NdFeB Specifications](#)

[AlNiCo Magnets Specifications](#)

SmCo Magnets Specification

Magnetic and physical properties

Specifications	YX16	YX18	YX20	YXT18	YX22	YX24	YX26	YX27	YX30
Br (mT) Residual induction	750-880 7.5-8.8	800-930 8.0-9.0	850-980 8.5-9.8	900-1030 9.0-10.3	900-1030 9.0-10.3	950-1080 9.5-10.8	1000-1130 10.0-11.3	1000-1100 10.0-11.0	1100-1200 11.0-12.0
(Hcb) (KA/m) Coercive force (KOE)	547-637 7-8	597-677 7.5-8.5	597-677 7.5-8.5	597-677 7.5-8.5	613-693 7.7-8.7	636-716 8.0-9.0	676-756 8.5-9.5	357-516 4.5-6.5	438-517 5.5-6.5
(Hci) (KA/m) Intrinsic coercive force (KOE)	≥1989 ≥25	≥1432 ≥18	≥1273 ≥16	≥1194 ≥15	≥1989 ≥25	≥1432 ≥18	≥1194 ≥15	≥420 ≥5.2	≥454 ≥5.7
(BH)max (KJ/m ³) Maximum energy product (MGOe)	111-143 14-18	127-159 16-20	143-175 18-22	127-159 16-20	159-191 20-24	175-207 22-26	191-223 24-28	183-223 24-28	223-255 28-32
Average reversible temperature coefficient (%/ °C)	-0.05	-0.05	-0.05	-0.05	-0.01	-0.01	-0.01	-0.03	-0.03
Cuie temperature (°C)	≥700	≥700	≥750	≥700	≥800	≥800	≥800	≥800	≥800
Max. Operating temperature (°C)	250	250	250	250	250	250	250	250	250
Urec Recoil permeability	1.05-1.10	1.05-1.10	1.05-1.10	1.05-1.10	1.05-1.10	1.00-1.10	1.00-1.10	1.00-1.10	1.00-1.10
Density (g/cm ³)	8.0-8.2	8.0-8.2	8.0-8.2	8.0-8.2	8.3-8.5	8.3-8.5	8.3-8.5	8.3-8.5	8.3-8.5
Hardness HV	450-500	450-500	450-500	450-500	450-500	500-600	500-600	500-600	500-600

Ferrite Magnet Specifications

Magnetic and physical properties

Specifications	Y10T	Y15	Y20	Y25	Y30	Y35	Y30BH
Br (mT)	200-235	280-360	320-380	360-400	380-420	400-440	380-400
Residual induction (Hcb) (KA/m)	(2.0-2.35)	(2.8-3.6)	(3.2-3.8)	(3.6-4.0)	(3.8-4.2)	(4.0-4.4)	(3.8-4.0)
Coercive force (KOe)	125-160	128-192	135-192	135-170	160-216	176-224	224-240
(Hci) (KA/m)	(1.57-2.01)	(1.6-2.4)	(1.70-2.38)	(1.7-2.14)	(2.0-2.70)	(2.2-2.8)	(2.8-3.0)
Intrinsic coercive force (KOe)	210-280	135-190	140-195	140-200	160-200	180-200	230-260
(BH)max (KJ/m ³)	(2.64-3.52)	(1.70-2.40)	(1.76-2.45)	(1.76-2.51)	(2.0-2.30)	(2.2-2.5)	(2.8-3.25)
Maximum energy product (MGOe)	6.5-9.5	14.3-17.5	18-22	22.5-28	26.3-29.5	30.3-33.4	27.1-30.3
(0.81-1.2)	(1.8-2.2)	(2.3-2.8)	(2.8-3.5)	(3.3-3.7)	(3.8-4.2)	(3.4-3.8)	
Average reversible temperature coefficient (%/ °C)	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
Curie temperature (°C)	≥450	≥450	≥450	≥450	≥450	≥450	≥450
Max. Operating temperature (°C)	80	80	80	80	80	80	80
Density (g/cm ³)	4.7-5.0	4.5-5.0	4.5-5.0	4.6-5.0	4.6-5.0	4.6-5.0	4.7-5.1

Note: The dimension specification and magnetizing mode will be selected according to user's requirement.

Bonded NdFeB Specifications

Magnetic and physical properties

Specifications	GMP-4	GMP-6	GPM-8	GPM-8H	GMP-10	GMP-12	GMP-12D
Br (mT)	350-450	500-600	600-670	560-650	680-700	700-800	700-800
Residual induction (Hcb) (KA/m)	(3.5-4.5)	(5.0-6.0)	(6.0-6.7)	(5.6-6.5)	(6.8-7.0)	(7.0-8.0)	(7.0-8.0)
Coercive force (KOe)	240-280	320-360	360-440	400-464	400-440	416-480	448-480
(Hci) (KA/m)	(3.0-3.5)	(4.0-4.5)	(4.5-5.5)	(5.0-5.8)	(5.0-5.5)	(5.2-6.0)	(5.6-6.0)
Intrinsic coercive force (KOe)	640-800	640-800	640-800	960-1360	640-800	640-880	720-960
(BH)max (KJ/m ³)	(8.0-10.0)	(8.0-10.0)	(8.0-11.0)	(13.0-17.0)	(8.0-10.0)	(8.0-11.0)	(9.0-12.0)
Maximum energy product (MGOe)	24-32	40-56	64-72	60-72	72-80	80-96	80-96
Average reversible temperature coefficient (%/ °C)	(3.0-4.0)	(5.0-7.0)	(8.0-9.0)	(7.5-9.0)	(9.0-10.0)	(10.0-12.0)	(10.0-12.0)
Cuie temperature (°C)	-0.1	-0.1	-0.1	-0.13	-0.1	-0.1	-0.07
Max. Operating temperature (°C)	≥400	≥400	≥400	≥305	≥360	≥360	≥470
(KA/m)	150	150	140	120	120	130	140
Saturation magnetizing forc (KOe)	1600	1600	2000	2800	1600	1600	2000
Density (g/cm ³)	≥ 20	≥ 20	≥ 25	≥ 35	≥ 20	≥ 20	≥ 25
Hardness HRB	4.5-5.0	5.5-5.8	5.8-6.0	5.6-6.0	6.0-6.2	6.2-6.6	6.2-6.6
	40-45	40-45	35-38	35-38	35-38	35-38	35-38

Note: The dimension specification and magnetizing mode will be selected according to user's requirement.

