

MATERIAL REFERENCE

Ferrite Magnets

A structured reference for comparing catalogue grades and defining the conditions needed for your application.



Product illustration. Geometry and configuration are project-specific.

Selection conditions.

Available envelope

Share the maximum diameter, arc length, radial thickness and air gap. Ferrite selection often succeeds or fails on available magnetic-circuit volume.

Magnetic target

Provide pull force, flux density, torque or speaker sensitivity target together with the test fixture and measurement position.

Mechanical retention

Describe the housing, adhesive, press fit, shock, vibration and edge-clearance requirements for the ceramic part.

Volume and tooling

State annual demand, launch quantity and expected design life. Tooling and cavity decisions should be evaluated with the forecast.

MATERIAL DATA

Catalogue grade reference.

Catalogue figures support initial selection. They are not a lot test report or an approved project specification. The source does not state a complete test basis for these values; agree temperature, sample geometry, magnetization state, method and acceptance limits before use.

Grade	Br mT (kGs)	Hcb kA/m (kOe)	Hcj kA/m (kOe)	(BH)max kJ/m ³ (MGOe)
Y8T	200-235 (2.0-2.35)	125-160 (1.57-2.01)	210-280 (2.64-3.52)	6.5-9.5 (0.8-1.2)
Y10T	200-235 (2.0-2.35)	128-160 (1.61-2.01)	210-280 (2.64-3.52)	6.4-9.6 (0.8-1.2)
Y20	320-380 (3.2-3.8)	135-190 (1.70-2.39)	140-195 (1.76-2.45)	18.0-22.0 (2.3-2.8)
Y22H	310-360 (3.1-3.6)	220-250 (2.76-3.14)	280-320 (3.52-4.02)	20.0-24.0 (2.5-3.0)
Y23	320-370 (3.2-3.7)	170-190 (2.14-2.39)	190-230 (2.39-2.89)	20.0-25.5 (2.5-3.2)
Y25	360-400 (3.6-4.0)	135-170 (1.70-2.14)	140-200 (1.76-2.51)	22.5-28.0 (2.8-3.5)
Y26H	360-390 (3.6-3.9)	220-250 (2.76-3.14)	225-255 (2.83-3.20)	23.0-28.0 (2.9-3.5)
Y26H-1	360-390 (3.6-3.9)	200-250 (2.51-3.14)	225-255 (2.83-3.20)	23.0-28.0 (2.9-3.5)
Y26H-2	360-380 (3.6-3.8)	263-288 (3.30-3.62)	318-350 (4.00-4.40)	24.0-28.0 (3.0-3.5)
Y27H	370-400 (3.7-4.0)	205-250 (2.58-3.14)	210-255 (2.64-3.20)	25.0-29.0 (3.1-3.6)
Y28	370-400 (3.7-4.0)	175-210 (2.20-2.64)	180-220 (2.26-2.76)	26.0-30.0 (3.3-3.8)
Y28H-1	380-400 (3.8-4.0)	240-260 (3.02-3.27)	250-280 (3.14-3.52)	27.0-30.0 (3.4-3.8)
Y28H-2	360-380 (3.6-3.8)	271-295 (3.41-3.71)	382-405 (4.80-5.09)	26.0-30.0 (3.3-3.8)
Y30	370-400 (3.7-4.0)	175-210 (2.20-2.64)	180-220 (2.26-2.76)	26.0-30.0 (3.3-3.8)
Y30BH	380-390 (3.8-3.9)	223-235 (2.80-2.95)	231-245 (2.90-3.08)	27.0-30.0 (3.4-3.8)
Y30H-1	380-400 (3.8-4.0)	230-275 (2.89-3.46)	235-290 (2.95-3.64)	27.0-32.0 (3.4-4.0)
Y30H-2	395-415 (3.95-4.15)	275-300 (3.46-3.77)	310-335 (3.90-4.21)	27.0-32.5 (3.4-4.1)
Y32	400-420 (4.0-4.2)	160-190 (2.01-2.39)	165-195 (2.07-2.45)	30.0-33.5 (3.8-4.2)
Y32H-1	400-420 (4.0-4.2)	190-230 (2.39-2.89)	230-250 (2.89-3.14)	31.5-35.0 (4.0-4.4)
Y40	440-460 (4.4-4.6)	Project-specific	Project-specific	~38-42 (~4.8-5.3)

Project-specific cells intentionally omit values that need clarification. No replacement value or unit conversion has been inferred.

APPLICATION REVIEW

Specify the finished part.

Magnetic output

Agree on the property and fixture used for acceptance.
For motor arcs, include pole orientation, matching and air-gap conditions.

Geometry and chips

Set critical dimensions, arc angle, flatness, edge condition and visual limits for chips or cracks.

Assembly retention

Validate adhesive or mechanical retention under the actual vibration, temperature and shock profile.

Batch consistency

Track material grade, cavity or tool identification, magnetizing setup and sampling plan across production lots.

Define the next step.

Share your drawing, application conditions and target quantity for a material or assembly review.

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ABOUT THIS EDITION

New editorial reference edition 2026.09-R1, compiled 2026-09-27. Catalogue data and selection questions are reorganized for clarity. This edition does not record an engineering approval or certify a measured production result.

Source: Empire Magnets existing product catalogue and technical-library archive. For a project-controlled specification, request an engineering review.