

## Classification and Applications of Hard Ferrite Magnet

Magnetic material is fundamental functional material of electronic industry. As an important part of magnetic material, hard ferrite material plays a great role in electronic industry, IT industry, power tool industry, automobile industry and etc. Meanwhile, it's also widely used in medical treatment, mining and metallurgy, industry automation, oil energy industry and civil industry.

Hard ferrite material mainly include hard ferrite and rare-earth NdFeB. Hard ferrite is manufactured through ceramic process using  $\text{SrCO}_3$  or  $\text{BaCO}_3$  and  $\text{Fe}_2\text{O}_3$  as raw material. DMEGC mainly produces material grade DM25、DM30、DM33H、DM4036、DM4229、DM4240、DM4433、DM4545、DM4550、DM4558、DM4654、DM4748 etc more than 20 types of grades. The main characteristics and application fields of various grades of ferrite materials are shown in the table below:

Grade	Main Application	Material Characteristics	Product Shape
DM10T	Magnetic strip, magnetic sheet, instrument, small motor household appliance motor, magnetic therapy, sensor	isotropic, multi-pole magnetization high dimensional accuracy	Bar magnet, cylinder,ring U-shape
DM4129 DM4433 DM4636	Rotor of water pump motor, oil pump motor, and other micro brushless motors	Dry pressing anisotropic product, multi-pole radial or full radiation magnetic ring, with high surface magnetic and stable performance	Cylinder ring
DM25 DM30	Various loudspeaker speakers, receivers, motors, magnetizers, medical devices, sensors, suction devices	Product density is high, property is good, quality is stable	ring, cylinder
DM33H DM34H DM4036 DM4040	Electric tool motor, wiper, heater, door and window motor, household appliance motor, motorcycle starter motor, planar motor, medical fitness equipment motor, magnetic suction device, sensor device	High Br, Hcj, strong demagnetization resistance, stable performance, and wide application	Segment,square,ring, cylinder
DM4129 DM4240 DM4545	High grade loudspeaker, loudspeaker, receiver, instrument, meter motor, magnetic adsorption device, medical device, magneto	High Br, the product has high sensitivity, good stability, superior quality, and high magnetic flux density	ring, cylinder, square
DM4229 DM4433 DM4636	microwave,high grade loudspeaker, loudspeaker, receiver, meter motor, micro motor	High Br and Hcb, high flux density, high sensitivity, high stability	ring,cylinder,segment square
DM3850 DM4350 DM4654	Automobile, motorcycle starter motor, air conditioning refrigerator compressor motor	High Hcb, Hcj, strong demagnetization resistance, anti aging capability and wide temperature range	Mainly in segment, square shape
DM4040 DM4240 DM4545 DM4748	ABS motor, starter motor, fan motor, wiper motor, power steering motor, brake motor, household appliance motor, refrigerator compressor motor	High Br, hcj, high flux density, good stability	Mainly in segment, cylindrical, square shape
DM4433 DM4636 DM4748	Automobile oil pump motor, electronic air throttle motor, high grade speaker, instrument motor, household appliance motor, office automation motor	High Br, high sensitivity, suitable for micro and high performance motors	Mainly in segment, cylindrical, square shape
DM4550 DM4654 DM4748	Automobile starting motor, air conditioning refrigerator compressor motor, small volume automobile window, sunroof, ABS, oil pump and other automobile motors	High Br, hcj, high magnetic flux, high demagnetization resistance, and low temperature coefficient	Mainly in segment, square