





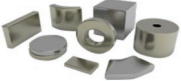


# Magnet Material Comparison Chart

NOT ALL MAGNET MATERIALS ARE CREATED EQUAL

	Flexible Ferrite	Hard Ferrite	Alnico	Bonded NdFeB (Injection Molded)	Bonded NdFeB (Compression)	SmCo	Sintered NdFeB
							
<b>Relative Magnet Strength</b>	Lowest	Moderate	Moderate	Moderate	Average	High	Highest
<b>(BH) Max</b>	< 2 MGOe	1-5 MGOe	5-9 MGOe	4-6 MGOe	6-12 MGOe	18-32 MGOe	28-55 MGOe
<b>Resistance to DEMAG (Coercivity)</b>	Easily Demagnetized	Easily Demagnetized	Easiest to Demagnetize	Average	Average	Average	High Resistance
<b>Ease of Magnetization</b>	Easy to Magnetize	Easy to Magnetize	Easiest to Magnetize	Difficult to Magnetize	Difficult to Magnetize	Difficult to Magnetize	Difficult to Magnetize
<b>Corrosion Resistance</b>	No Coating Required	No Coating Required	No Coating Required	No Coating Required	Some Applications May Require Coating	No Coating Required	Typically Requires Ni-Cu-Ni or Epoxy Coating
<b>Max Operating Temperature</b>	100 °C 212 °F	250 °C 480 °F	530 °C 980 °F	150 °C 302 °F	150 °C 302 °F	300 °C 575 °F	300 °C 575 °F
<b>Unique Aspects</b>	Typically Multi-Pole	Low Raw Material Cost	Consistent Flux Over Wide Temperature Range	Complex Shapes	Machinable	Good Thermal Performance	Good Thermal Performance
<b>Raw Material Cost</b>	Low Cost	Most Cost Effective	Most Cost Effective	Average	Average	Highest	Highest
<b>Also Known as</b>	Magnetic Rubber	Ferrite or Ceramic	Cast or Sintered Alnico	Plastic Bonded	Compression Bonded or Compression Molded	Fully Dense SmCo	Fully Dense SmCo