

Sheet of CO-NETIC AA (*)

Material of superior quality for magnetic shielding

Product code: CP020-A4

Manufacturer: **Magnetic Shield Corp.**, U. S. A.

Surface: 297 x 210 mm ±1 (A4 size)

Thickness: 0,508 mm ±0,025

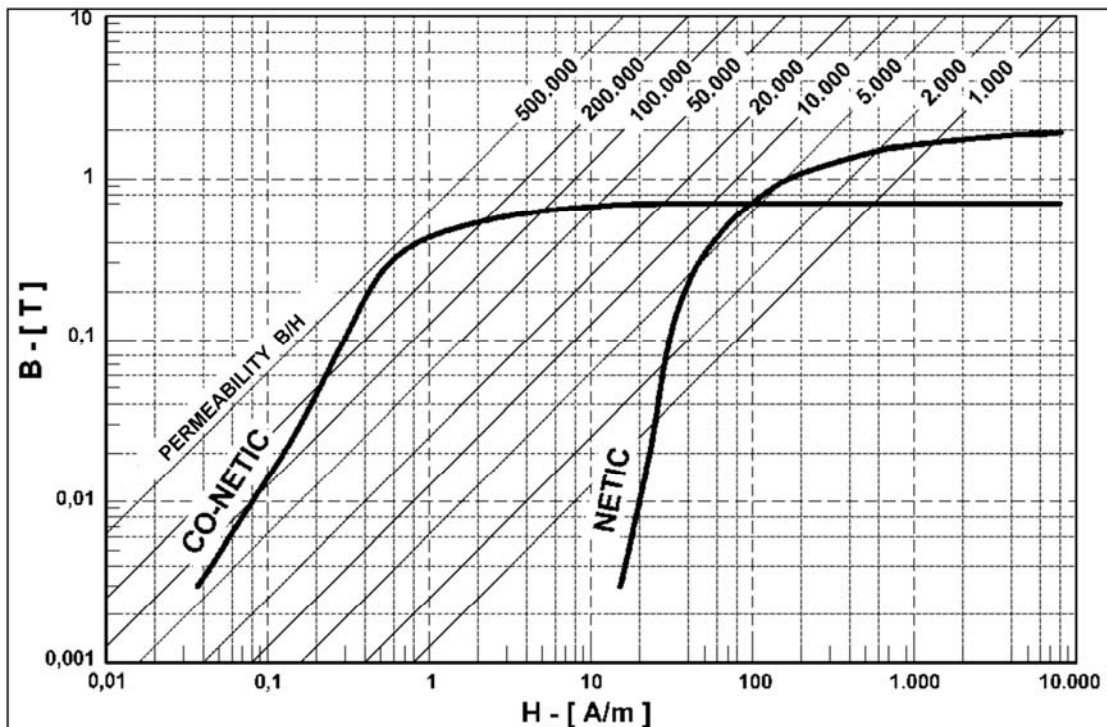
Weight: 274 grams

Heat treating: Annealed in Hydrogen for maximum magnetic permeability (*Perfection Annealed*)

Typical composition (% of weight): Ni 80; Mo 5; Mn 0.5; C ≤0.25; Si ≤0.3; Cu ≤0.2; lower quantities of other elements; Fe balance (≈14%)

Physical properties:

Relative Density	8.74	Saturation Induction	0.8 T 8,000 Gauss
Coefficient of Thermal Expansion, per °C x 10 ⁻⁶	12.6	Initial Permeability	30,000
Tensile Strength	441 MPa 64 PSI x 10 ³	Permeability at B = 0.004 T (40 G)	75,000
Yield Strength	128 MPa 18,5 PSI x 10 ³	Permeability at B = 0.02 T (200 G)	135,000
Modulus of Elasticity	172 GPa 25 PSI x 10 ⁶	Maximum Permeability	450,000
Hardness, Rockwell B	50 HRB	Induction at Maximum Permeability	0.3 T 3,000 G
Melting Point	1,454 °C	Coercive Field H _c	1.2 A/m 0.015 Oe
Thermal Conductivity W/m.K cal/seg/cm ² /cm/°C, at 20 °C	58 0.138	Curie Temperature	454 °C
Electrical Resistivity	55 x 10 ⁻⁸ Ω.m 55 μΩ.cm	Minimum Operating Temperature	4 K



(*) CO-NETIC and NETIC are registered trademarks of Magnetic Shield Corp.

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