

PHYTHERM® 260 for induction cookware

PHYTHERM 260® is an iron-nickel-chromium soft magnetic alloy suitable for cookware for induction cooking. The maximum working temperature is controlled by an adapted ferromagnetic alloy with a specific Curie point.

1. CHEMICAL COMPOSITION (Weight %)

Element	Ni	Cr	Fe
Typical Value	50	9	Bal

2. PHYSICAL PROPERTIES

Density (g/cm ³)	Resistivity (μΩ.cm)	Coefficient of expansion between 20-100°C (10 ⁻⁶ /°C)
8,2	100	10,5

3. MAGNETIC PROPERTIES

Typical Curie temperature T_c ≈ 280°C

4. MECHANICAL CHARACTERISTICS (typical values)

Temper	Hardness (HV)	Tensile strength (MPa)	% Elongation	Grain size
Annealed	125	500	40	8

5. ROUGHNESS-SURFACE

- Ra ≤ 0,35μm
- Surface free from scratches, oxidation or defects that might be detrimental to use

6. DIMENSIONS

Thickness (mm)	Tolerance (%)	Delivery forms	
		Strips	Discs
0,4	+/- 7	Widthes on request	Diameters on request
0,5	+/- 7		
0,6	+/- 7		

7. FORM

	Annealed temper
Burr	≤ 10 % of the thickness
Edgewise curvature (strips)	≤ 3 mm/m

8. PACKAGING

- Packaging must be suitable to prevent the metal from damage during transportation or stocking in normal conditions.

8.1. Coils

	For 500 Kgs ordered	For 1000 Kgs ordered	For 3000 Kgs ordered
Typical coils weight	≈ 0,8 Kg/mm wide	≈ 1,5 Kg/mm wide	≈ 4,5 Kg/mm wide

- Internal diameter : 400mm(standard) or 500mm(to be precised)
- Outer diameter ≤ 1100mm
- Please contact us regarding dimensions and minimum order quantity

8.2. Discs

- Material can also be delivered under disk form. Please contact us regarding dimensions and minimum order quantity.

9. CERTIFICATE

- Chemical composition (Ni, Cr, Fe Bal)
- Mechanical properties (Hardness, grain size)
- Magnetic properties (Curie temperature)

In case of other requirement, please do not hesitate to contact us