

Nickel/Iron Alloy Pellets (Ni80/Fe20)

Formula: Ni80/Fe20

Maximum Lump Size: 5mm

Weight: 100g

UOM Code: 010-780-39

SKU: 1000001455-group

Product Code: NI29-LP-000100

Material Properties for Alloys

Magnetic Properties

| Element | Value |
|--------------------------------------|--------|
| Initial permeability | 30000 |
| Maximum permeability | 400000 |
| Coercivity (Hc)(A m ⁻¹) | 0.02 |
| Curie temperature(C) | 460 |
| Saturation flux density(T) | 0.77 |

Mechanical Properties

| Element | Value |
|--------------------------|-------|
| Elongation at break(%) | 38 |
| Tensile strength(MPa) | 930 |

Electrical Properties

| Element | Value |
|--|-------|
| Electrical resistivity(μOhmcm) | 62 |
| Temperature coefficient(K ⁻¹) | - |

Thermal Properties

| Element | Value |
|---|---------------|
| Melting point(C) | 1445 |
| Thermal conductivity(W m ⁻¹ K ⁻¹) | 34.6@23°C |
| Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹) | 12.9@20-100°C |