

Iron/Nickel Alloy Disk (Fe58/Ni42)

Formula: Fe58/Ni42

Thickness: 0.125mm

Diameter: 18.7mm

UOM Code: 115-748-60

SKU: 1000027765-group

Product Code: FE13-FL-000150

Material Properties for Alloys

Mechanical Properties

| Element | Value |
|------------------------------|-------|
| Elongation at break(%) | 30 |
| Modulus of elasticity(GPa) | 21.5 |
| Tensile strength(MPa) | 566 |

Electrical Properties

| Element | Value |
|---|-------|
| Electrical resistivity(μOhmcm) | 68 |
| Temperature coefficient(K^{-1}) | - |

Magnetic Properties

| Element | Value |
|------------------------|-------|
| Curie temperature(C) | 380 |

Thermal Properties

| Element | Value |
|--|--------------|
| Melting point(C) | 1450 |
| Specific heat($\text{J K}^{-1} \text{kg}^{-1}$) | 502@23°C |
| Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$) | 4.8@30-100°C |

Physical Properties

| Element | Value |
|-----------------------------|--------------|
| Density(gcm ³) | 8.11 |