

AISI 420 Stainless Steel Foil

Formula: Fe86.7/Cr13.0/C 0.3

Thickness: 1.5mm

Length 1: 100mm

Length 2: 100mm

Surface Finish: Mirror polished on both sides

UOM Code: 203-703-94

SKU: 1000082352-group

Product Code: FK11-SH-000101

Material Properties for Alloys

Mechanical Properties

| Element | Value |
|------------------------------|-------|
| Elongation at break(%) | >12 |
| Modulus of elasticity(GPa) | 200 |
| Tensile strength(MPa) | 860 |

Electrical Properties

| Element | Value |
|---|-------|
| Electrical resistivity(μOhmcm) | 55 |
| Temperature coefficient(K^{-1}) | - |

Thermal Properties

| Element | Value |
|--|--------------|
| Melting point(C) | 1450 |
| Specific heat($\text{J K}^{-1} \text{kg}^{-1}$) | 460@23°C |
| Thermal conductivity($\text{W m}^{-1} \text{K}^{-1}$) | 24.9@100°C |
| Coefficient of thermal expansion($\times 10^{-6} \text{K}^{-1}$) | 10.3@0-100°C |

Physical Properties

| Element | Value |
|------------------------------|-------|
| Density(gcm^{-3}) | 7.8 |