

AISI 304 Stainless Steel Plain Weave Gauze

Formula: Fe/Cr18/Ni10

Thickness: 0.5mm

Length 1: 10mm

Length 2: 10mm

Product Shape: Plain Weave

Open Area: 37%

Nominal Aperture: 0.38

Wires/Inch: 40x40

Wire Diameter: 0.25mm

UOM Code: 109-296-28

SKU: 1000021995-group

Product Code: FE22-MS-000110

Material Properties for Alloys

Mechanical Properties

| Element | Value |
|--|----------|
| Hardness - Brinell | 160-190 |
| Elongation at break(%) | 60 |
| Modulus of elasticity(GPa) | 190-210 |
| Izod impact strength(J m ²) | 20-136 |
| Tensile strength(MPa) | 460-1100 |

Electrical Properties

| Element | Value |
|---|-------|
| Electrical resistivity(μOhmcm) | 70-72 |

Thermal Properties

| Element | Value |
|--|-------------|
| Melting point(C) | 1400-1455 |
| Thermal conductivity(W m ⁻¹ K ⁻¹) | 16.3@23°C |
| Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹) | 18@20-100°C |

Physical Properties

| Element | Value |
|---------|-------|
|---------|-------|

| | |
|-----------------------------|------|
| Density(gcm ³) | 7.93 |
|-----------------------------|------|