

# Monel® 400 Plain Weave Gauze

**Formula:** Ni65/Cu33/Fe 2

**Thickness:** 0.5mm

**Length 1:** 100mm

**Length 2:** 100mm

**Product Shape:** Plain Weave

**Open Area:** 37%

**Nominal Aperture:** 0.38

**Wires/Inch:** 40x40

**Wire Diameter:** 0.25mm

**UOM Code:** 839-153-65

**SKU:** 1000157591-group

**Product Code:** NI11-MS-000110

## Material Properties for Alloys

### Mechanical Properties

Element	Value
Hardness - Brinell	125-190
Elongation at break( % )	40
Modulus of elasticity( GPa )	185
Izod impact strength( J m <sup>2</sup> )	110-140
Tensile strength( MPa )	550-950

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	48-51
Temperature coefficient( K <sup>-1</sup> )	0.0019

### Thermal Properties

Element	Value
Maximum use temperature in air( C )	450
Melting point( C )	1300-1350
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	21.7@23°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	13.9-14.1@20-100°C

## Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	8.84