

# AISI 316 Stainless Steel Plain Weave Gauze

**Formula:** Fe/Cr18/Ni10/Mo 3

**Thickness:** 0.45mm

**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:** 087-878-42

**SKU:** 1000012556-group

**Product Code:** FE24-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 <sup>21</sup> )	20-136
Tensile strength( MPa )	460-860

### Electrical Properties

Element	Value
Electrical resistivity( μOhmcm )	70-78
Temperature coefficient( K <sup>21</sup> )	-

### Thermal Properties

Element	Value
Melting point( C )	1370-1400
Specific heat( J K <sup>21</sup> kg <sup>21</sup> )	502@23°C
Thermal conductivity( W m <sup>21</sup> K <sup>21</sup> )	16.3@23°C
Coefficient of thermal expansion( x10 <sup>22</sup> K <sup>21</sup> )	16-18@20-100°C

## Physical Properties

Element	Value
Density( gcm <sup>3</sup> )	7.96