

AISI 316 Stainless Steel Foam

Formula: Fe/Cr18/Ni10/Mo 3

Porosity: 93%

Pores/cm: 24

Thickness: 12.7mm

Length 1: 50mm

Length 2: 50mm

Bulk Density: 0.55g/cm³

UOM Code: 138-623-21

SKU: 1000042220-group

Product Code: FE24-FA-000140

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 ^{-1/2})	20-136
Tensile strength(MPa)	460-860

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70-78
Temperature coefficient(K ⁻¹)	-

Thermal Properties

Element	Value
Melting point(C)	1370-1400
Specific heat(J K ⁻¹ kg ⁻¹)	502@23°C
Thermal conductivity(W m ⁻¹ K ⁻¹)	16.3@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	16-18@20-100°C

Physical Properties

Element	Value
Density(gcm ³)	7.96