



Sintered Specialties
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Ferritic Stainless Steel: SSI-410L

Chemistry

	Min	Max
Chromium	11.50	13.50
Silicon	-	1.0
Manganese	-	1.0
Phosphorus	-	0.04
Sulphur	-	0.03
Carbon	-	0.03
Nitrogen	-	0.03

Typical Mechanical Properties

Density, g/cm ³	7.25
Ultimate Tensile Strength, 10 ³ psi (MPa)	55 (380)
Yield Strength (0.2%), 10 ³ psi (MPa)	35 (240)
Elongation (in 1.0 in.), %	25
Elastic Modulus, x10 ⁶ psi (MPa)	27.5 (190)
Poisson's Ratio	0.27
Macrohardness (Apparent), HRB	59

Typical Magnetic Properties

Density, g/cm ³	7.25
Resistivity, μΩ-cm	69
Magnetic Induction (B ₁₀₀), Kg (Tesla)	14.0 (1.40)
Remanent Induction (B _r), kG (Tesla)	8.0 (0.80)
Coercive Force (H _c), Oe (A/m)	1.7 (135)
Maximum Permeability (μ _{max})	2100

The data presented in this bulletin are typical values, obtained from test specimens processed through production equipment. The data does not represent a guarantee of minimum or maximum values for the materials in actual parts, nor are they intended as warranties, express or implied, of fitness of material for use in any specific application.