

General

Property	Standard	Unit	Value
Specific gravity	ISO 1183	g/cm ³	7.85
Moisture absorption	-	%	0
Fire behavior	EN 13501-1	-	A1 (Non-combustible)
Specific heat capacity	-	J/kg°C	461
Zinc coating mass	EN 10346	g/m ²	275
Zinc coating thickness (approx.)	EN 10346	μm	20 per side

Mechanical

Property	Standard	Unit	Value
Yield strength	EN 10346	MPa	140–300
Tensile strength	EN 10346	MPa	270–500
Elongation at break	EN 10346	%	≥22
E-Modulus (20°C)	-	GPa	210
Hardness	-	HB	90–140
Poisson's ratio	-	-	0.30

Electrical

Property	Standard	Unit	Value
Electrical resistivity	-	Ω·mm ² /m	0.15
Electrical conductivity	-	MS/m	6.7

Thermal

Property	Standard	Unit	Value
Melting point (steel)	-	°C	1420–1460
Melting point (zinc)	-	°C	419.5
Thermal conductivity	-	W/m°C	54
Linear coefficient of expansion	-	μm/m°C	12
Maximum continuous service temperature	-	°C	200*

* For higher temperatures, the zinc coating may oxidize or deteriorate.

Temperature Range

Temperature	Unit	Value
Minimum operating temperature	°C	-40
Maximum operating temperature	°C	200