

SSAB Tunplatt Domex® 500MC HSLA Steel

Category : Metal , Ferrous Metal , Alloy Steel , Low Alloy Steel

Material Notes:

HSLA Steel Characteristics: Some thicknesses of these steel grades are available with a maximum of 0.03% Si for thin Zn coating. If the material is to be hot-dip galvanized and steel with a maximum Si content of 0.03% is not available, the silicon content should be 0.2%. Domex® MC grade steels conform to the provisions of EN 10149-2 standard and often have better properties. Property data is for hot-rolled steel. Domex® is the brand name of hot rolled products from SSAB Tunplatt. Domex® cold-forming steels are modern structural steels. General use of Domex® high strength steels offers a number of benefits compared to ordinary structural steels: Lower weight, Simpler production, Lower creep rate, Longer useful life, Higher load-bearing capacity, Lower transport costs, Reduced stocks, Lower overall cost. Data provided by SSAB Tunplatt.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SSAB-Tunplatt-Domex-500MC-HSLA-Steel.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	Estimated by MatWeb

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	550 - 700 MPa	79800 - 102000 psi	
Tensile Strength, Yield	>= 500 MPa	>= 72500 psi	
Elongation at Break	>= 14 % @Thickness >=3.00 mm	>= 14 % @Thickness >=0.118 in	A ₈₀
	>= 18 % @Thickness >=3.00 mm	>= 18 % @Thickness >=0.118 in	A ₅
Impact	168	168	J/cm ² ; -20°C
	174 @Temperature -40.0 °C	174 @Temperature -40.0 °F	J/cm ²
Bend Radius, Minimum	>= 1.0 t	>= 1.0 t	t<3mm; internal bend radius, 90°
	>= 1.2 t	>= 1.2 t	3 mm < t < 6mm; internal bend radius, 90°
	>= 1.6 t	>= 1.6 t	t>6mm; internal bend radius, 90°

Component Elements Properties	Metric	English	Comments
Aluminum, Al	>= 0.015 %	>= 0.015 %	
Carbon, C	<= 0.10 %	<= 0.10 %	

Component Elements Properties <i>Iron, Fe</i>	Metric <i>10%</i>	English <i>10%</i>	Comments <i>As remainder</i>
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Niobium, Nb (Columbium, Cb)	<= 0.090 %	<= 0.090 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.30 %	<= 0.30 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	
Titanium, Ti	<= 0.15 %	<= 0.15 %	
Vanadium, V	<= 0.20 %	<= 0.20 %	

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