

ThyssenKrupp XABO® 355 T Structural Steel

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel

Material Notes:

This Material Specification applies to thermomechanically rolled flat products in thicknesses up to 60 mm. The criteria to distinguish the steel grades is the lowest test temperature for the notch-bar impact test. Application: The steels are applied in welded constructions such as supporting structures, vessels etc., where a secured preventin against cold cracking in the welded joints is required. Due to the low carbon equivalent, these steels are highly resistant against cold cracking. Information Provided by Thyssen Krupp

Order this product through the following link:

http://www.lookpolymers.com/polymer_ThyssenKrupp-XABO-355-T-Structural-Steel.php

Physical Properties	Metric	English	Comments
Density	7.85 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	450 - 600 MPa	65300 - 87000 psi	
Tensile Strength, Yield	>= 335 MPa	>= 48600 psi	35<x=60mm
	>= 345 MPa	>= 50000 psi	
	@Thickness 16.0 - 35.0 mm	@Thickness 0.630 - 1.38 in	
	>= 355 MPa	>= 51500 psi	
	@Thickness 16.0 mm	@Thickness 0.630 in	
Elongation at Break	>= 22 %	>= 22 %	
Modulus of Elasticity	213 GPa	30900 ksi	
Charpy Impact	16.0 J	11.8 ft-lb	Transverse
	@Temperature -50.0 °C	@Temperature -58.0 °F	
	25.0 J	18.4 ft-lb	Transverse
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	27.0 J	19.9 ft-lb	Longitudinal
	@Temperature -50.0 °C	@Temperature -58.0 °F	
	35.0 J	25.8 ft-lb	Transverse
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	40.0 J	29.5 ft-lb	Longitudinal
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	45.0 J Metric	33.2 ft-lb English	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	50.0 J	36.9 ft-lb	Longitudinal
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	65.0 J	47.9 ft-lb	Longitudinal
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.450 J/g-°C	0.108 BTU/lb-°F	
Thermal Conductivity	45.0 W/m-K	312 BTU-in/hr-ft²-°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.13 %	<= 0.13 %	
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Nickel, Ni	<= 0.30 %	<= 0.30 %	
Niobium, Nb (Columbium, Cb)	<= 0.050 %	<= 0.050 %	
Other	<= 0.39 %	<= 0.39 %	Carbon Equivalent
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	0.000030 ohm-cm	0.000030 ohm-cm	

Descriptive Properties	Value	Comments
Magnetic Properties	magnetizable	
Thermal diffusivity (cm²/s)	0.13	

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