

ThyssenKrupp XABO® 890 Structural Steel

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

Material Notes:

This Material Specification applies to liquid-quenched and tempered heavy plates from 3 up to 100 mm in thickness, made of the high-strength special structural steels XABO® 890 and XABO® 960. Application: The steels are used for welded constructions of all kinds such as transport vehicles, mobile cranes, hoistings and mining equipment, pressure vessels and penstocks. Information Provided by Thyssen Krupp

Order this product through the following link:

http://www.lookpolymers.com/polymer_ThyssenKrupp-XABO-890-Structural-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	880 - 1100 MPa	128000 - 160000 psi	50<x=60mm
	880 - 1100 MPa	128000 - 160000 psi	60<x=80mm
	880 - 1100 MPa	128000 - 160000 psi	80<x=100mm
	940 - 1100 MPa	136000 - 160000 psi	
	@Thickness 50.0 mm	@Thickness 1.97 in	
Tensile Strength, Yield	>= 830 MPa	>= 120000 psi	50<x=60mm
	>= 830 MPa	>= 120000 psi	60<x=80mm
	>= 830 MPa	>= 120000 psi	80<x=100mm
	>= 890 MPa	>= 129000 psi	
	@Thickness 50.0 mm	@Thickness 1.97 in	
Elongation at Break	>= 11 %	>= 11 %	
Charpy Impact	27.0 J	19.9 ft-lb	Transverse
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	30.0 J	22.1 ft-lb	Transverse
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	30.0 J	22.1 ft-lb	Longitudinal
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	35.0 J	25.8 ft-lb	Transverse
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	40.0 J	29.5 ft-lb	Longitudinal
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	50.0 J	36.9 ft-lb	

Mechanical Properties	Metric @ Temperature 0.000 °C	English @ Temperature 32.0 °F	Longitudinal Comments
Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.80 %	<= 0.80 %	
Carbon, C	<= 0.18 %	<= 0.18 %	
Chromium, Cr	<= 0.80 %	<= 0.80 %	
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Molybdenum, Mo	<= 0.70 %	<= 0.70 %	
Nickel, Ni	<= 2.0 %	<= 2.0 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	
Vanadium, V	<= 0.10 %	<= 0.10 %	

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