

ThyssenKrupp N-A-XTRA® M 800 Structural Steel

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

Material Notes:

This Material Specification applies to quenched and tempered heavy plates made of the special structural steel N-A-XTRA® This steel can be supplied with a minimum yield strength of 800 MPa. It can be delivered in two qualities with different toughness properties. 1) Quality for low service temperature with minimum impact energy at - 40 °C (N-A-XTRA® M) in a thickness range from 3 to 100 mm. 2) Special quality for low service temperature with minimum impact energy at - 60 °C (classic N-A-XTRA®) in a thickness range from 3 to 50 mm. Application: The steels are used for welded constructions of all kinds, such as pressure vessels, penstocks, bridges and structures, as well as transport vehicles, mobile cranes, mining equipment, hoistings and earth moving equipment, which are utilized in different types of climatic conditions. If continuous yielding occurs, the yield strength is determined as Rp0,2 Information Provided by Thyssen Krupp

Order this product through the following link:

http://www.lookpolymers.com/polymer_ThyssenKrupp-N-A-XTRA-M-800-Structural-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	840 - 990 MPa	122000 - 144000 psi	
	@Thickness >=65.0 mm	@Thickness >=2.56 in	
	840 - 1000 MPa	122000 - 145000 psi	
	@Thickness 65.0 mm	@Thickness 2.56 in	
Tensile Strength, Yield	>= 740 MPa	>= 107000 psi	
	@Thickness >=65.0 mm	@Thickness >=2.56 in	
	>= 800 MPa	>= 116000 psi	
	@Thickness 65.0 mm	@Thickness 2.56 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	

Mechanical Properties	50.0 J Metric	36.9 ft-lb English	Comments
	@Temperature 0.000 °C	@Temperature 32.0 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 1.5 %	<= 1.5 %	
Carbon, C	<= 0.20 %	<= 0.20 %	
Chromium, Cr	<= 1.5 %	<= 1.5 %	
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Molybdenum, Mo	<= 0.60 %	<= 0.60 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Silicon, Si	<= 0.80 %	<= 0.80 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	

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