

ThyssenKrupp N-A-XTRA® 620 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 in 3 different grades with a minimum yield strength of 550, 620 and 700 MPa. All steel grades 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-620-Structural-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 470 MPa	>= 68200 psi	
	@Strain 0.200 %, Temperature 400 °C	@Strain 0.200 %, Temperature 752 °F	
	>= 485 MPa	>= 70300 psi	
	@Strain 0.200 %, Temperature 350 °C	@Strain 0.200 %, Temperature 662 °F	
	>= 500 MPa	>= 72500 psi	
	@Strain 0.200 %, Temperature 300 °C	@Strain 0.200 %, Temperature 572 °F	
	>= 520 MPa	>= 75400 psi	
	@Strain 0.200 %, Temperature 250 °C	@Strain 0.200 %, Temperature 482 °F	
	>= 540 MPa	>= 78300 psi	
	@Strain 0.200 %, Temperature 200 °C	@Strain 0.200 %, Temperature 392 °F	
	>= 570 MPa	>= 82700 psi	
	@Strain 0.200 %, Temperature 150 °C	@Strain 0.200 %, Temperature 302 °F	
	>= 590 MPa	>= 85600 psi	
	@Strain 0.200 %, Temperature 100 °C	@Strain 0.200 %, Temperature 212 °F	
Elongation at Break	>= 15 %	>= 15 %	

Mechanical Properties	^{27.0 J} Metric	^{19.9 ft-lb} English	Comments
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	30.0 J	22.1 ft-lb	Transverse
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	30.0 J	22.1 ft-lb	Longitudinal
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	35.0 J	25.8 ft-lb	Transverse
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	40.0 J	29.5 ft-lb	Longitudinal
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	40.0 J	29.5 ft-lb	Transverse
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	50.0 J	36.9 ft-lb	Longitudinal
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	60.0 J	44.3 ft-lb	Longitudinal
	@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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