ThyssenKrupp PAS 420 Structural Steel for Cold Forming

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

Material Notes:

This Material Specification applies to plates made of low carbon high strength steels with minimum yield strength values between 315 and 700 MPa1) in the thermo mechanically rolled delivery condition. They offer improved formability and show favorable properties such as low tendency towards hardening and high cold cracking resistance at welding.The steels are used for cold formed parts of different kinds such as truck frames, axle designs and other special profiles and shapes. The entire processing technique is of fundamental importance for the good performance of the products made of these steels. The processor must assure himself, that his calculation, designing and working conform with the material to be used and are suited to the proposed application.If continuous yielding occurs, the yield strength is determined as Rp0,2Information Provided by Thyssen Krupp

Order this product through the following link:
http://www.lookpolymers.com/polymer_ThyssenKrupp-PAS-420-Structural-Steel-for-Cold-Forming.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	480 - 620 MPa	69600 - 89900 psi	
Tensile Strength, Yield	>= 420 MPa	>= 60900 psi	
Elongation at Break	>= 19 %	>= 19 %	
Charpy Impact	40.0 J @Temperature -20.0 °C	29.5 ft-lb @Temperature -4.00 °F	EN 10045
Bend Radius, Minimum	0.50 t	0.50 t	ISO 7438

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Niobium, Nb (Columbium, Cb)	<= 0.070 %	<= 0.070 %	
Phosphorous, P	<= 0.025 %	<= 0.025 %	
Silicon, Si	<= 0.15 %	<= 0.15 %	
Sulfur, S	<= 0.010 %	<= 0.010 %	
Vanadium, V	<= 0.10 %	<= 0.10 %	

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