

ThyssenKrupp SECURE 450 Structural Steel

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

Material Notes:

This Material Specification applies to the liquid-quenched and tempered high-strength special steel SECURE 450 with a hardness between 400 - 480 HBW for civil use from 4 up to 20 mm thickness. Application: The steels may be used for purposes of ballistic protection mainly for applications like armoured limousines and valuable transporters. Information Provided by Thyssen Krupp

Order this product through the following link:

http://www.lookpolymers.com/polymer_ThyssenKrupp-SECURE-450-Structural-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1250 - 1450 MPa	181000 - 210000 psi	
Tensile Strength, Yield	1100 MPa	160000 psi	
Elongation at Break	8.0 %	8.0 %	
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	Longitudinal
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.20 %	<= 0.20 %	
Chromium, Cr	<= 1.0 %	<= 1.0 %	
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Molybdenum, Mo	<= 0.70 %	<= 0.70 %	
Nickel, Ni	<= 2.25 %	<= 2.25 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	
Sulfur, S	<= 0.0050 %	<= 0.0050 %	
Vanadium, V	<= 0.050 %	<= 0.050 %	

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