

ThyssenKrupp SECURE 500 Structural Steel

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

Material Notes:

This Material Specification applies to the alloyed, liquid-quenched and tempered high-strength special steel SECURE 500 for civil use, that is usually produced in thickness from 3 mm up to 90 mm. 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-500-Structural-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1600 MPa	232000 psi	
Tensile Strength, Yield	1300 MPa	189000 psi	
Elongation at Break	9.0 %	9.0 %	
Charpy Impact	15.0 J	11.1 ft-lb	Transverse
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 0.050 %	<= 0.050 %	
	@Thickness >=50.0 mm	@Thickness >=1.97 in	
	<= 0.11 %	<= 0.11 %	
	@Thickness 50.0 mm	@Thickness 1.97 in	
Carbon, C	<= 0.32 %	<= 0.32 %	
Chromium, Cr	<= 1.5 %	<= 1.5 %	
Manganese, Mn	<= 0.50 %	<= 0.50 %	
	@Thickness >=50.0 mm	@Thickness >=1.97 in	
	<= 1.0 %	<= 1.0 %	
	@Thickness 50.0 mm	@Thickness 1.97 in	
Molybdenum, Mo	<= 0.50 %	<= 0.50 %	
	@Thickness 50.0 mm	@Thickness 1.97 in	
	<= 0.60 %	<= 0.60 %	
	@Thickness >=50.0 mm	@Thickness >=1.97 in	
Nickel, Ni	<= 0.70 %	<= 0.70 %	

Component Elements Properties	@Thickness 50.0 mm Metric	@Thickness 1.97 in English	Comments
	<= 3.7 %	<= 3.7 %	
	@Thickness >=50.0 mm	@Thickness >=1.97 in	
Phosphorous, P	<= 0.015 %	<= 0.015 %	
Silicon, Si	<= 0.40 %	<= 0.40 %	
Sulfur, S	<= 0.0050 %	<= 0.0050 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China