

Industeel SUPERELSO® 500 Quenched and Tempered High Strength Steel for Pressure Equipment

Category : Metal , Ferrous Metal , Carbon Steel , Medium Carbon Steel

Material Notes:

Description: Superelso® 500 (SE 500) is a 500MPa (72ksi) yield strength quenched and tempered steel adapted for pressure equipment. SE 500 is manufactured via the electric furnace with dephosphorisation, ladle refining and vacuum degassing to provide a reproducible, clean and homogeneous steel. The chemistry of SE 500 has been carefully adapted to combine high strength and excellent weldability. This steel also displays excellent toughness, with transition temperatures typically below -50°C/-58°F. This steel is particularly suitable for pressure equipment in the offshore oil and gas industry, where its high strength allows significant weight and cost reductions. It can be supplied with stainless steel or alloy cladding where necessary. Mechanical properties for 150 mm plates or thinner. Information provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industeel-SUPERELSO-500-Quenched-and-Tempered-High-Strength-Steel-for-Pressure-Equipment.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	600 - 720 MPa	87000 - 104000 psi	Typical
Tensile Strength, Yield	>= 500 MPa @Strain 0.200 %	>= 72500 psi @Strain 0.200 %	
Elongation at Break	18 %	18 %	Typical
Charpy Impact	>= 50.0 J @Temperature >=-50.0 °C	>= 36.9 ft-lb @Temperature >=-58.0 °F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.13 %	<= 0.13 %	
Iron, Fe	96.356 - 100 %	96.356 - 100 %	As remainder
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Molybdenum, Mo	<= 0.50 %	<= 0.50 %	
Nickel, Ni	<= 1.0 %	<= 1.0 %	
Phosphorous, P	<= 0.010 %	<= 0.010 %	
Silicon, Si	<= 0.40 %	<= 0.40 %	
Sulfur, S	<= 0.0040 %	<= 0.0040 %	

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