

Industeel SUPERELSO® 890 HLE Steel for Welded and Weight-Saving Structures

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

Material Notes:

Description: SUPERELSO® 890 is quenched and tempered steel for structure with higher strength. Thanks to a minimum yield strength of 890 N/mm² (130 KSI), SUPERELSO® 890 enables to make weight savings or support higher stresses and thus carry higher payload. With a good quality of steel making process, an adapted chemical analysis (low alloying content) and an excellent precision in Industeel's fabrication process (thickness tolerance, uniform mechanical characteristics), SUPERELSO® 890 is easy to machine, to bend and to weld which simplify production and maintenance. By using S SUPERELSO® 890 and thus thinner plate in welded structures, you limit preheating conditions, you decrease quantity of consumables, welding time and so production costs. Information provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industeel-SUPERELSO-890-HLE-Steel-for-Welded-and-Weight-Saving-Structures.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	940 - 1100 MPa	136000 - 160000 psi	Typical
Tensile Strength, Yield	>= 890 MPa @Strain 0.200 %	>= 129000 psi @Strain 0.200 %	
Elongation at Break	>= 11 %	>= 11 %	At 5%
	13 %	13 %	Typical At 5%
Charpy Impact	>= 30.0 J @Temperature -20.0 °C	>= 22.1 ft-lb @Temperature -4.00 °F	Transverse
	>= 40.0 J @Temperature -20.0 °C	>= 29.5 ft-lb @Temperature -4.00 °F	Longitudinal

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.040 - 0.070 %	0.040 - 0.070 %	
Carbon, C	0.18 %	0.18 %	
Chromium, Cr	0.80 %	0.80 %	
Copper, Cu	0.30 %	0.30 %	
Iron, Fe	93.91 - 93.94 %	93.91 - 93.94 %	As remainder
Manganese, Mn	1.5 %	1.5 %	
Molybdenum, Mo	0.60 %	0.60 %	
Nickel, Ni	2.0 %	2.0 %	

Component Elements Properties	Metric	English	Comments
Phosphorus, P	0.025 %	0.025 %	
Silicon, Si	0.50 %	0.50 %	
Sulfur, S	0.015 %	0.015 %	
Vanadium, V	0.10 %	0.10 %	

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