

## Industeel SUPERELSOÂ® 960 HLE Steel for Welded and Weight-Saving Structures

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

### Material Notes:

Description: SUPERELSOÂ® 960 is quenched and tempered steel for structure with higher strength. Thanks to a minimum yield strength of 960 N/mmÂ² (140 KSI), SUPERELSOÂ® 960 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), SUPERELSOÂ® 960 is easy to machine, to bend and to weld which simplify production and maintenance. By using S SUPERELSOÂ® 960 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-960-HLE-Steel-for-Welded-and-Weight-Saving-Structures.php](http://www.lookpolymers.com/polymer_Industeel-SUPERELSO-960-HLE-Steel-for-Welded-and-Weight-Saving-Structures.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1000 - 1130 MPa	145000 - 164000 psi	Typical
Tensile Strength, Yield	>= 960 MPa @Strain 0.200 %	>= 139000 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	
	13 %	13 %	
Charpy Impact	>= 30.0 J @Temperature -20.0 Â°C	>= 22.1 ft-lb @Temperature -4.00 Â°F	Transverse
	>= 40.0 J @Temperature -20.0 Â°C	>= 29.5 ft-lb @Temperature -4.00 Â°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 %	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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