

Material: AS C450LO

Standard Specification for Structural Steel Hollow Sections

Group: Ferrous Mild Steel Alloys

Sub Group: AS C450LO Structural Steel Hollow Sections

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	0.250 max.
Manganese	Mn %	1.700 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.250 max.
Molybdenum	Mo %	0.350 max.
Vanadium	V %	0.100 max.
Aluminium	Al %	0.100 max.
Copper	Cu %	0.150 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	500 min.
Yield Strength in Mpa	450 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	18 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8830	EN	European Union	Steel
1.8866	DIN	Germany	Steel
4020	AISI	USA	Forging, Bar, Wire, and Shape
P355Q	AFNOR NF	France	Steel
P355QH	UNI	Italy	Steel
C450	AS	Australia	Steel
A732 6N	ASTM	USA	Casting

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