



## Material - AS C450

### Standard Specification for Steel Tubes for Mechanical Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - AS C450 Steel Tubes for Mechanical Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	<b>Mechanical Properties</b>	
-	-	-	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8830	EN	European Union	Steel
1.8866	DIN	Germany	Steel
C450L0	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
P355QH	UNI	Italy	Steel
4020	AISI	USA	Forging, Bar, Wire, and Shape
A732 6N	ASTM	USA	Casting

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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