



Material - BS 243 - 430

Standard Specification for Steel Forgings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 243 - 430 Steel Forgings for Pressure Purposes

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

Grade Belongs to the Industry - Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 - 0.200		
Silicon	Si %	0.150 - 0.400		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.	Normalising + Tempering or Hardening + Tempering	
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.250 max.		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.250 - 0.350		
Copper	Cu %	0.300 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	430 - 580
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	19 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	27 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SA-352 Grade LC1	ASME	USA	Casting	
4422	AISI	USA	Bar	
G20Mo5	DIN	Germany	Casting	
J12522	UNS	USA	Casting	
SCPL 11	JIS	Japan	Casting	
G18Mo5	UNI	Italy	Casting	
A352 LC1	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

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