

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	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.150 - 0.400		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
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.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	430 - 580
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	19 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	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

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