

Material: BS 503-490

Standard Specification for Steel Steel Forgings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 503-490 Steel Forgings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.150 - 0.400		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.250 max.		
Nickel	Ni %	3.250 - 3.750		
Molybdenum	Mo %	0.100 max.		
Aluminium	Al %	0.018 min.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 - 640
-	-	-	Yield Strength in Mpa	300 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC3	ASME	USA	Casting
1.5638	DIN	Germany	Casting
1.5638	EN	European Union	Casting
J31550	UNS	USA	Casting
AM8Ni14	UNE	Spain	Casting
G12Ni14	UNI	Italy	Casting
A352 LC3	ASTM	USA	Casting

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