GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 7899 Grade 1 Class B

Standard Specification for Alloy Steel Castings Suitable For Pressure Service-Specification

Group - Ferrous Mild Steel Alloys
Sub Group - IS 7899 Grade 1 Class B Alloy Steel Castings Suitable For Pressure Service-Specification
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.300 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	1.000 max.
Sulphur	S %	0.045 max.
Phosphorus	P %	0.040 max.
Vanadium	V %	0.070 - 0.150
Copper	Cu %	0.500 max.
Nickel	Ni %	0.500 max.
Chromium	Cr %	0.350 max.
Mo + W	Mo% + W%	0.250 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Quenching or Tempering

Mechanical Properties	
Tensile Strength in Mpa	620 - 795
Yield Strength in Mpa	450 min.
Elongation in %	20 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1.7511	DIN	Germany	Steel
22 CrvV 3	DIN	Germany	Steel
SAE J 1249 6118	AISI	USA	Steel
J 1249 6118	SAE	USA	Steel
1553.2 E4816-W	AS	Australia	Steel
1553.2 E4818-W	AS	Australia	Steel
G61180	UNS	USA	Steel

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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