GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 7899 Grade 6 Class B

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

Group - Ferrous Mild Steel Alloys
Sub Group - IS 7899 Grade 6 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 %	0.050 - 0.380
Silicon	Si %	0.800 max.
Manganese	Mn %	1.300 max.
Sulphur	S %	0.045 max.
Phosphorus	P %	0.040 max.
Chromium	Cr %	0.400 - 0.800
Nickel	Ni %	0.400 - 0.800
Molybdenum	Mo %	0.300 - 0.400
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
Vanadium	V %	0.030 max.
Other	Ot %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Quenching or Tempering

Mechanical Properties	
Tensile Strength in Mpa	825 min.
Yield Strength in Mpa	655 min.
Elongation in %	11 min.
Reduction of Area in %	25 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G88220	UNS	USA	Steel
A 29 8822	ASTM	USA	Steel and Bars
A 752 Grade 8822	ASTM	USA	Steel and Wire rods
A 914 grade 8822RH	ASTM	USA	Steel and Bars
A 519 8822	ASTM	USA	Steel and Tube
J 1249 EX 28	SAE	USA	Steel
J 1249 EX 29	SAE	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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