GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 7899 Grade 18 Class A

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

Group - Ferrous Mild Steel Alloys
Sub Group - IS 7899 Grade 18 Class A 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 %	0.120 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	2.100 max.
Sulphur	S %	0.020 max.
Phosphorus	P %	0.020 max.
Nickel	Ni %	1.000 - 1.400
Vanadium	V %	0.020 max.
Copper	Cu %	0.200 max.
Chromium	Cr %	0.200 max.
Molybdenum	Mo %	0.100 max.
Tungsten	W %	0.100 max.
Other	Ot %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Normalising

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	275 min.
Elongation in %	20 min.
Reduction of Area in %	35 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J31200	UNS	USA	Steel and Casting
SA-487 Grade 16A	ASME	USA	Steel and Casting
A 487 Grade 16N	ASTM	USA	Steel and Casting
6550 08 GDNFL	BDS	Bulgaria	Steel and Casting
977 08GDNFL	GOST	Russia	Steel and Casting
1.2726	DIN	Germany	Steel
36-208 1.5 Ni	AFNOR NF	France	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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