GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 7899 Grade 11 Class D

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

Group - Ferrous Mild Steel Alloys
Sub Group - IS 7899 Grade 11 Class D 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 %	0.150 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	1.000 max.
Sulphur	S %	0.045 max.
Phosphorus	P %	0.040 max.
Chromium	Cr %	11.500 - 14.000
Nickel	Ni %	1.000 max.
Molybdenum	Mo %	0.500 max.
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
Other	Ot %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Quenching or Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	515 min.
Elongation in %	16 min.
Reduction of Area in %	35 min.
Hardness in HB	235 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J91150	UNS	USA	Steel and Casting
A 217 Grade CA15	ASTM	USA	Steel and Casting
36257 AM -X 12 Cr 13	UNE	Spain	Steel and Casting
36257 F.8401	UNE	Spain	Steel and Casting
3161 (1983) G X 12 Cr 13	UNI	Italy	Steel and Casting
10283 GX 12 Cr 12	EN	European Union	Steel and Casting
SA- 217 Grade CA15	ASME	USA	Steel and Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.