GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 4898 Grade2

Standard Specification for Steel Castings for Case Carburizing

Group - Ferrous Mild Steel Alloys

Sub Group - IS 4898 Grade2 Steel Castings for Case Carburizing

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.120 - 0.180
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.600 max.
Chromium	Cr %	0.600 - 1.100
Molybdenum	Mo %	0.150 - 0.250
Copper	Cu %	0.300 max.
Nickel	Ni %	3.000 - 3.750
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Hardening + Tempering or Quenching + Tempering

Mechanical Properties	
Tensile Strength in Mpa	1000 min.
Yield Strength in Mpa	-
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	20 J @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1444 X3312	AS	Australia	Steel
1444 X3312H	AS	Australia	Steel
1444 X9315	AS	Australia	Steel
8550 16 NiCr 11	UNI	Italy	Steel and Forging
683-11 15 NiCr 13	ISO	International	Steel
EN 10084 15NiCr13	DIN	Germany	Steel
10084 15NiCr 13	EN	European Union	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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