GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 4896 Grade2

Standard Specification for One-Percent Chromium Steel Castings for Resistance to Abrasion

Group - Ferrous Mild Steel Alloys
Sub Group - IS 4896 Grade2 One-Percent Chromium Steel Castings for Resistance to Abrasion
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.550 - 0.700
Silicon	Si %	0.750 max.
Manganese	Mn %	0.500 - 1.000
Sulphur	S %	0.040 max.
Phosphorus	P %	0.040 max.
Chromium	Cr %	0.800 - 1.500
Molybdenum	Mo %	0.200 - 0.400
Copper	Cu %	0.300 max.
Nickel	Ni %	0.400 max.
Vanadium	V %	0.050 max.
Tungsten	W %	0.100 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising + Tempering or Normalising or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	330 - 380
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G41610	UNS	USA	Steel
2074 L2B	AS	Australia	Casting
970-2 705 A 60	BS	British	Steel
970-2 705 H 60	BS	British	Steel
683-14 60 CrMo 33	ISO	International	Steel
SAE J 1249 4161	AISI	USA	Steel
J 1249 4161	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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