GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 1875 55C8 Class 5

Standard Specification for Carbon Steel Billets, Blooms, Slabs and Bars for Forgings

Group - Ferrous Mild Steel Alloys

Sub Group - IS 1875 55C8 Class 5 Carbon Steel Billets, Blooms, Slabs and Bars for Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.500 - 0.600
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.600 - 0.900
Sulphur	S %	0.040 max.
Phosphorus	P %	0.040 max.
Nickel	Ni %	0.300 max.
Chromium	Cr %	0.300 max.
Copper	Cu %	0.250 max.
Molybdenum	Mo %	0.050 max.
Vanadium	V %	0.050 max.
Boron	B %	0.0003 max.
Tin	Sn %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	710 min.
Yield Strength in Mpa	350 min.
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in HB	200 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 291 Class 1	ASTM	USA	Steel and Forging
G 4051 S 53 C	JIS	Japan	Steel
G 4051 S 55 C	JIS	Japan	Steel
G 3311 S 55 CM	JIS	Japan	Steel and Strip
EN 10083-1 C 35 R	AFNOR NF	France	Steel
EN 10083-1 C 35 R	B.S.	United Kingdom	Steel
EN 10083-1 C35R	DIN	Germany	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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