GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10250-2 C55E I 1.1203

Standard Specification for Open Die Steel Forgings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10250-2 C55E I 1.1203 Open Die Steel Forgings for General Engineering Purposes

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.520 - 0.600
Silicon	Si %	0.400 max.
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.400 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	0.400 max.
Cr + Mo + Ni	Cr% + Mo% + Ni%	0.630 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	640 min.
Yield Strength in Mpa	330 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10083-1 C 55 E	B.S.	United Kingdom	Steel
10083-1 C 55 E	EN	European Union	Steel
EN 10083-1 C 55 E	AFNOR NF	France	Steel
C 55 E	NBN	Belgium	Steel
EN 10083-1 C 55 E	NS	Norway	Steel
EN 10083-1 C 55 E	UNI	Italy	Steel
36051-2 C 55K	UNE	Spain	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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