GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10250-2 S235JR I 1.0038

Standard Specification for Open Die Steel Forgings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10250-2 S235JR I 1.0038 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 %	0.200 max.
Silicon	Si %	0.550 max.
Manganese	Mn %	1.400 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.080 max.
Nickel	Ni %	0.300 max.
Cr + Mo + Ni	Cr% + Mo% + Ni%	0.480 max.
Aluminium	Al %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	340 min.
Yield Strength in Mpa	215 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	35 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K02010	UNS	USA	Steel
10028-2 1.0345	EN	European Union	Steel
10273 1.0345	EN	European Union	Steel
6280 45 B	MSZ	Hungary	Steel
5892-1 A 1	B.S.	United Kingdom	Steel
A 35-205-2 A 37 CP	AFNOR NF	France	Steel
EN 10028-2 P 235 GH	UNI	Italy	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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