GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 3038 Grade 3

Standard Specification for Martensitic Stainless Steel and Alloy Steel Castings for Pressure Containing Parts Suitable for High Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - IS 3038 Grade 3 Martensitic Stainless Steel and Alloy Steel Castings for Pressure Containing Parts Suitable for High Temperature Service

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.100 - 0.150
Silicon	Si %	0.200 - 0.450
Manganese	Mn %	0.400 - 0.700
Sulphur	S %	0.030 max.
Phosphorus	P %	0.030 max.
Chromium	Cr %	0.300 - 0.500
Nickel	Ni %	0.500 max.
Molybdenum	Mo %	0.400 - 0.600
Vanadium	V %	0.220 - 0.300
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
Tin	Sn %	0.050 max.
Aluminium	Al %	0.025 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance

Heat Treatment
As-Cast or Normalizing + Tempering

Mechanical Properties	
Tensile Strength in Mpa	510 min.
Yield Strength in Mpa	295 min.
Elongation in %	17 min.
Reduction of Area in %	-
Hardness in HV	-
Impact in Joule	20 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1501-2 660	B.S.	United Kingdom	Steel and Plates
3604-1 660	B.S.	United Kingdom	Steel, Pipe and Tubing
1504 660	B.S.	United Kingdom	Steel and Casting
3100 B 7	B.S.	United Kingdom	Steel and Casting
EN 10213-2 G12MoCrV5-2	AFNOR NF	France	Steel and Casting
EN 10213-2 G12MoCrV5-2	UNI	Italy	Steel
EN 10213-2 1.7720	DIN	Germany	Steel and Casting

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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