GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-765 Grade IV

Standard Specification for Carbon Steel and Low-Alloy Steel Pressure-Vessel-Component Forgings With Mandatory Toughness Requirements

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-765 Grade IV Carbon Steel and Low-Alloy Steel Pressure-Vessel-Component Forgings With Mandatory Toughness Requirements

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.200 max.
Manganese	Mn %	1.000 - 1.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Silicon	Si %	0.150 - 0.500
Nickel	Ni %	0.500 max.
Vanadium	V %	0.060 max.
Aluminium	Al %	0.050 max.
Chromium	Cr %	0.400 max.
Molybdenum	Mo %	0.100 max.
Copper	Cu %	0.350 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Quenching & Tempering or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	550 - 725
Yield Strength in Mpa	345 min.
Elongation in %	22 min.
Reduction of Area in %	30 min.
Hardness in HB	-
Impact in Joule	35 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K02008	UNS	USA	Steel
10208-2 1.0418	EN	European Union	Steel and Pipe
10208-2 1.0429	EN	European Union	Steel and Pipe
EN 10208-2 1.0418	DIN	Germany	Steel and Pipe
EN 10208-2 1.0429	DIN	Germany	Steel and Pipe
41 3030 13030	CSN	Czech Republic	Steel
A 724 Grade B	ASTM	USA	Steel and Plate

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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