GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A508 Grade 3V

Standard Specification for Quenched and Tempered Vacuum-Treated Carbon and Alloy Steel Forgings for Pressure Vessels

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A508 Grade 3V Quenched and Tempered Vacuum-Treated Carbon and Alloy Steel Forgings for Pressure Vessels

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.100 - 0.150
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Silicon	Si %	0.350 max.
Chromium	Cr %	2.800 - 3.300
Molybdenum	Mo %	0.900 - 1.100
Vanadium	V %	0.200 - 0.300
Boron	B %	0.001 - 0.003
Titanium	Ti %	0.015 - 0.035
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 - 760
Yield Strength in Mpa	415 min.
Elongation in %	18 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	54 @ -18˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K31830	UNS	USA	Steel
A 182 F3V	ASTM	USA	Steel and Pipe
A 541 Grade 3V	ASTM	USA	Steel and Forging
A 336 Grade 3V	ASTM	USA	Steel and Forging
A 542 Type C Class 1	ASTM	USA	Steel
A 542 Type C Class 2	ASTM	USA	Steel
A 542 Type C Class 3	ASTM	USA	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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