GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A508 Grade 6 Class 1

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 6 Class 1 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 %	0.280 - 0.330
Manganese	Mn %	0.750 - 1.150
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	0.750 - 0.950
Chromium	Cr %	0.700 - 1.000
Molybdenum	Mo %	0.300 - 0.450
Vanadium	V %	0.050 max.
Niobium	Nb %	0.010 max.
Aluminium	Al %	0.050 max.
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	27 @ -59˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K11940	UNS	USA	Steel
41 6224 16224	CSN	Czech Republic	Steel
AMS 6422 98BV40 Mod	SAE	USA	Bars, Forging and Tubing
AMS 6421 98B37 Mod	SAE	USA	Bars, Forging and Tubing
7847 40 NiCrMo 3	UNI	Italy	Steel
7356 38 NiCrMo 4 KB	UNI	Italy	Steel and Wire Rods
SA-508 Grade 6 Class 1	ASME	USA	Steel and Forging

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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