GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-372 Grade K

Standard Specification for Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-372 Grade K Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forgings

Chemical Composition		
Carbon	C %	0.180 max.
Manganese	Mn %	0.100 - 0.400
Phosphorus	P %	0.015 max.
Sulphur	S %	0.010 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	2.000 - 3.300
Chromium	Cr %	1.000 - 1.800
Molybdenum	Mo %	0.200 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 - 860
Yield Strength in Mpa	550 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	207 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K31820	UNS	USA	Steel
1.678	DIN	Germany	Steel
15 NiCrMo 10-6	DIN	Germany	Steel
1.6782	DIN	Germany	Steel
16 NiCrMo 12-6	DIN	Germany	Steel
1501-2 828	B.S.	United Kingdom	Steel
A 372 Grade K	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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