GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-723 Grade 3 Class 2

Standard Specification for Alloy Steel Forgings for High-Strength Pressure Component Application

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-723 Grade 3 Class 2 Alloy Steel Forgings for High-Strength Pressure Component Application

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.400 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.015 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.350 max.
Chromium	Cr %	0.800 - 2.000
Nickel	Ni %	3.300 - 4.500
Molybdenum	Mo %	0.400 - 0.800
Vanadium	V %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	930 min.
Yield Strength in Mpa	825 min.
Elongation in %	14 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	41 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
1.6747	DIN	Germany	Steel
30 NiCrMo 16-6	DIN	Germany	Steel
35-552 35 NCD 16	AFNOR NF	France	Steel
80-107 35 NCD 16	AFNOR NF	France	Steel
SA-723 Grade 3 Class 5	ASME	USA	Steel and Forging
SA-723 Grade 3 Class 3	ASME	USA	Steel and Forging
SA-723 Grade 3 Class 4	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.