GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-965 Grade F348

Standard Specification for Steel Forgings, Austenitic, for Pressure and High Temperature Parts

Group - Ferrous Stainless Steel Alloys
Sub Group - ASME SA-965 Grade F348 Steel Forgings, Austenitic, for Pressure and High Temperature Parts
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.080 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	9.000 - 12.000
Chromium	Cr %	17.000 - 19.000
Nb + Ta	Nb%+Ta%	0.010 - 1.100
Cobalt	Co %	0.020 max.
Tantalum	Ta %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 min.
Elongation in %	30 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-376 TP348	ASME	USA	Steel and Pipe
A 213 TP348	ASTM	USA	Steel and Tubing
A 249 TP348	ASTM	USA	Steel and Tubing
A 269 TP348	ASTM	USA	Steel and Tubing
A 376 TP348	ASTM	USA	Steel and Pipe
A 409 TP348	ASTM	USA	Steel and Pipe
A 632 Grade TP 348	ASTM	USA	Steel and Tubing

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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