GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-705 Type 630

Standard Specification for Age-Hardening Stainless Steel Forgings

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-705 Type 630 Age-Hardening Stainless Steel Forgings

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.070 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	15.000 - 17.500
Nickel	Ni %	3.000 - 5.000
Copper	Cu %	3.000 - 5.000
Nb + Ta	Nb%+Ta%	0.150 - 0.450
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing or Precipitation Hardening

Mechanical Properties	
Tensile Strength in Mpa	1310 min.
Yield Strength in Mpa	1170 min.
Elongation in %	10 min.
Reduction of Area in %	40 min.
Hardness in BHN	388 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S17400	UNS	USA	Steel
SA-564 Type 630	ASME	USA	Bars and Shapes
D 3698 STS 630	KS	Korea	Plate, Sheet and Strip
G 4312 SUS 630	JIS	Japan	Plate and Sheet
G 4311 SUS 630	JIS	Japan	Steel and Bars
G 3214 SUS F 630	JIS	Japan	Steel and Forging
A 705 630	ASTM	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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