GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-276 S31730

Standard Specification for Stainless Steel Bars and Shapes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-276 S31730 Stainless Steel Bars and Shapes

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

Grade Belongs to the Industry - Bars and Shapes

Chemical Composition		
Carbon	C %	0.030 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.010 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	15.000 - 16.500
Molybdenum	Mo %	3.000 - 4.000
Nitrogen	N %	0.450 max.
Copper	Cu %	4.000 - 5.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing

Mechanical Properties	
Tensile Strength in Mpa	480 min.
Yield Strength in Mpa	175 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HRB	90 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-182 Grade F 70	ASME	USA	Steel and Forging
SA-213 S31730	ASME	USA	Steel and Tubing
17443 X2 CrNiMoN 18 15 4	DIN	Germany	Steel
49-244 X3CrNiMoN19-14	AFNOR NF	France	Steel
49-244 Z 3 CND 19-14 AZ	AFNOR NF	France	Steel
36-209 Z 3 CND 19-14 AZ	AFNOR NF	France	Steel
35-573 Z 3 CND 19-14 AZ	AFNOR NF	France	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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