GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-276 Type 205

Standard Specification for Stainless Steel Bars and Shapes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-276 Type 205 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 %	0.120 - 0.250
Manganese	Mn %	14.000 - 15.500
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	16.500 - 18.000
Nickel	Ni %	1.000 - 1.750
Nitrogen	N %	0.320 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	414 min.
Elongation in %	40 min.
Reduction of Area in %	50 min.
Hardness in BHN	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S20500	UNS	USA	Steel
A 276 205	ASTM	USA	Steel, Bars and Shapes
A 666 Type 205	ASTM	USA	Plate, Sheet, Strip and Bars
A 473 205	ASTM	USA	Steel
A 959 Type 205	ASTM	USA	Steel
SA-666 205	ASME	USA	Plate, Sheet, Strip and Bars
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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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