GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A304 Grade 8645 H

Standard Specification for Carbon and Alloy Steel Bars Subject to End-Quench Hardenability Requirements

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A304 Grade 8645 H Carbon and Alloy Steel Bars Subject to End-Quench Hardenability Requirements

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.420 - 0.490
Manganese	Mn %	0.700 - 1.050
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	0.350 - 0.750
Chromium	Cr %	0.350 - 0.650
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
H86450	UNS	USA	Steel
8645 H	AISI	USA	Steel
J 1397 8645	SAE	USA	Steel
J 1268 8645 H	SAE	USA	Steel
A 29 8645	ASTM	USA	Steel and Bars
A 519 8645	ASTM	USA	Steel and Tubing
A 752 Grade 8645	ASTM	USA	Steel and Wire Rods

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.