GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 1442 Grade 345

Standard Specification for High-Strength, Hot-Rolled Steel Bars

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J 1442 Grade 345 High-Strength, Hot-Rolled Steel Bars

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

Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.210 max.
Manganese	Mn %	1.500 max.
Silicon	Si %	0.400 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw

Mechanical Properties	
Tensile Strength in Mpa	655 max.
Yield Strength in Mpa	345 min.
Elongation in %	21 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J 1442 345A	SAE	USA	Plates, Bars and Shapes
J 1442 345F	SAE	USA	Plates, Bars and Shapes
A 35-500 E 36	AFNOR NF	France	Steel
A 35-501 E 36-2	AFNOR NF	France	Steel
G 3112 SD 345	JIS	Japan	Steel and Bars
EN 10025 S 355 JR	B.S.	United Kingdom	Steel
10025 S 355 JR	EN	European Union	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

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.