GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 1249 Grade 1145

Standard Specification for Chemical Compositions of SAE Experimental Steels

Group - Ferrous Mild Steel Alloys

Sub Group - SAE J 1249 Grade 1145 Chemical Compositions of SAE Experimental Steels

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.420 - 0.490
Manganese	Mn %	0.700 - 1.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 - 0.070
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw

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

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G11450	UNS	USA	Steel
SAE J 1299 1145	AISI	USA	Steel
A 510 1145	ASTM	USA	Steel and Wire Rods
A 29 1145	ASTM	USA	Steel and Bars
A 576 1145	ASTM	USA	Steel and Bars
SA-29 1145	ASME	USA	Steel and Bars
J 412 1145	SAE	USA	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.