GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 2507 50Cr4 Grade 10

Standard Specification for Cold-Rolled Steel, Strips for Springs

Group - Ferrous Mild Steel Alloys

Sub Group - IS 2507 50Cr4 Grade 10 Cold-Rolled Steel, Strips for Springs

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

Grade Belongs to the Industry - Steel, Strips and Springs

Chemical Composition		
Carbon	C %	0.450 - 0.550
Silicon	Si %	0.100 - 0.350
Manganese	Mn %	0.600 - 0.900
Sulphur	S %	0.050 max.
Phosphorus	P %	0.050 max.
Chromium	Cr %	0.900 - 1.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	780 max.
Yield Strength in Mpa	340 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HV	240 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G51520	UNS	USA	Steel
J 1249 5152	SAE	USA	Steel
SAE J 1249 5152	AISI	USA	Steel
37-504 50 CV 4	AFNOR NF	France	Steel and Strip
EN 10083-1 51 CrV 4	AFNOR NF	France	Steel
EN 10083-1 51 CrV 4	B.S.	United Kingdom	Steel
970-2 735 H 51	B.S.	United Kingdom	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.