



## Material - MSZ CrV 3

### Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - MSZ CrV 3 Mild Steel Alloys Bar and Rod

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

Grade Belongs to the Industry - Bar and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.470 - 0.550	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 - 1.000		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.800 - 1.100		
Vanadium	V %	0.100 - 0.200		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	800 - 1300
-	-	-	Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	248 max.
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
51CrV4	EN	European Union	Bar and Rod
1.8159	EN	European Union	Bar and Rod
F.1430	UNE	Spain	Bar and Rod
35 NCD 16	AFNOR NF	France	Bar and Rod
50 CV 4	AFNOR NF	France	Bar and Rod
50 CV 4	DIN	Germany	Bar and Rod
15 260	CSN	Czech Republic	Bar and Rod

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto: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.