

# Material: EN 10083-3 1.8159

## Standard Specification for Mild Steel Alloys Bar and Rod

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 10083-3 1.8159 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		
Carbon	C %	0.470 - 0.550
Silicon	Si %	0.400 max.
Manganese	Mn %	0.700 - 1.100
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	0.900 - 1.200
Vanadium	V %	0.100 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	800 - 950
Yield Strength in Mpa	600 min.
Elongation in %	13 min.
Reduction of Area in %	-
Hardness in BHN	As Per HT
Impact in Joule	30 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
51CrV4	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
CrV 3	MSZ	Hungary	Bar and Rod

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