

Material: BDS 35 NiCr 6

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: BDS 35 NiCr 6 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 %	0.300 - 0.370	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.800 - 1.100		
Nickel	Ni %	1.200 - 1.600		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	780 - 1080
-	-	-	Yield Strength in Mpa	640 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	223 max.
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
35NiCr6	EN	European Union	Bar and Rod
1.5815	EN	European Union	Bar and Rod
1.5815	ONORM	Australia	Bar and Rod
35 NiCr 6	ONORM	Australia	Bar and Rod
1.5815	NBN	Belgium	Bar and Rod
35 NiCr 6	NBN	Belgium	Bar and Rod
1.5815	BDS	Bulgaria	Bar and Rod

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