



## STANDARD

## CLASSIFICATION

## FEATURES

**UNI EN ISO 16120-2:2017**

Steel rods, bars and wire for cold heading and cold extrusion - steels for quenching and tempering

*Alloy special steel*

**C50D - Nr. 1.0586**

B, Mn-B Mn < 1.65 %

## CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,48 to 0,53	from 0,10 to 0,30	from 0,50 to 0,80	0,030 max	0,030 max	0,15 max	-
Mo	Ni	B	Cu	Al	Pb	
0,05 max	0,20 max	-	0,25 max	0,01 max	-	

## MECHANICAL PROPERTIES

Diameter		As Hot Rolled (+U) or Rolled and peeled (+U +PE)		Annealed (+AC) or Annealed + Peeled (+AC +PE)		Cold Drawn (+U +C)		Cold Drawn and Annealed (+U +C +AC)		Cold Drawn then Annealed and Skin passed (+U +C +AC + LC)		Annealed and Cold Drawn (+AC +C)	
from	to	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min	Rm (Mpa) max	Z (%) min
2	60	-	-	-	-	-	-	-	-	-	-	-	-

In case of specific needs, contact our sales offices to evaluate feasibility and agree on the values of Rm.

## EQUIVALENT STEEL GRADES

EUROPE (EN)	GERMANY (DIN, WNr)	FRANCE (AFNOR)	ITALY (UNI)	CHINA (GB)	FINLAND (SFS)	INTERN (ISO)
C50D	C50D	FM 50	C 50 D	-	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
-	-	-	-	-	-	

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