



STANDARD

CLASSIFICATION

FEATURES

UNI EN ISO 683-1: 2018

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

Alloy special steel

C35 - Nr. 1.0501

B, Mn-B Mn < 1.65 %

CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,32 to 0,39	from 0,10 to 0,40	from 0,50 to 0,80	0,045 max	0,045 max	0,40 max	Cr+Mo+Ni = < 0,63
Mo	Ni	B	Cu	Al	Pb	
0,10 max	0,40 max	-	0,30 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	16	-	-	550	18	-	-	-	-	-	-	-	-
16	100	-	-	520	19	-	-	-	-	-	-	-	-

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)
C35	C35	AF55C35	C35	35	-	C35
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
1035	S35C	070M36	C35K	1550	35	

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