



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

C30E - Nr. 1.1178

Cr, Cr-B

CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,27 to 0,34	from 0,10 to 0,40	from 0,50 to 0,80	0,025 max	0,035 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	-	-	510	20	-	-	-	-	-	-	-	-
16	100	-	-	480	21	-	-	-	-	-	-	-	-

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)
C30E	CK30	XC32	-	30	-	C30E4
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
1030	S30C	080M30	F.1131	-	30	

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