



STANDARD

CLASSIFICATION

FEATURES

UNI EN 10269: 2013

Non Alloy Steel Wire Rod For Conversion to Wire - wire rod for specials applications

Non Alloy Steel

20Mn5 - Nr. 1.1133

Structural pressure vessel and engineering steels with C < 0,5%

CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,17 to 0,23	0,40 max	from 1,00 to 1,50	0,030 max	0,035 max	0,40 max	Cr+Mo+Ni = < 0,63
Mo	Ni	B	Cu	Al	Pb	
0,10 max	0,40 max	-	-	0,02 min	-	

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)
20Mn5	20Mn5	20M5	G22Mn3	10Mn2	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
1022	SMn 420	120M19	-	-	20G	

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