



## STANDARD

## CLASSIFICATION

## FEATURES

**UNI EN 10263-3: 2017**

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

*Non Alloy Steel*

**18MnB4 - Nr. 1.5521**

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

## CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,16 to 0,20	0,30 max	from 0,90 to 1,20	0,025 max	0,025 max	-	-
Mo	Ni	B	Cu	Al	Pb	
-	-	from 0,0008 to 0,005	0,25 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	5	-	-	-	-	-	-	500	64	540	62	-	-
5	10	580	55	500	64	680	53	480	64	520	62	600	59
10	40	580	55	500	64	670	53	480	64	520	62	590	59

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)
18MnB4	18MnB4	-	-	-	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
-	-	-	-	-	-	

Data contained in this document are intended for reference only and may be subject to continuous changes.

Giuseppe & F. lli Bonaiti SRL declines any and all responsibility for the consequences that may arise from their use.