



## STANDARD

## CLASSIFICATION

## FEATURES

**UNI EN 10263-4: 2017**

Steel rods, bars and wire for cold heading and cold extrusion - case hardening steels

*Non Alloy Special Steel*

**33B2 - Nr. 1.5514**

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

## CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,30 to 0,35	0,30 max	from 0,60 to 0,90	0,025 max	0,025 max	0,30 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	-	-	-	-	-	-	540	64	580	62	-	-
5	10	-	-	550	62	-	-	530	64	570	62	640	57
10	40	-	-	550	62	-	-	530	64	570	62	630	57

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)
33B2	33B2	38B3	-	-	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
-	-	-	-	-	-	

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