



STANDARD

CLASSIFICATION

FEATURES

UNI EN 10263-3: 2017

Heat treatable steels, alloy steels and free-cuttings steels - free-cutting steels

Non-alloy quality steel not intended for heat treatment

C20E2C - Nr. 1.1152

Steels with higher P or S content

CHEMICAL ANALYSIS

C	Si	Mn	P	S	Cr	Other
from 0,18 to 0,22	0,30 max	from 0,30 to 0,60	0,025 max	0,025 max	-	-
Mo	Ni	B	Cu	Al	Pb	
-	-	-	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	-	-	-	-	-	-	460	67	500	65	-	-
5	10	530	58	470	65	640	56	450	67	490	65	580	62
10	40	530	58	470	65	630	56	450	67	490	65	570	62
40	100	530	58	470	65	-	-	-	-	-	-	-	-

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)
C20E2C	Cq22	-	CB 20 FF	-	-	-
USA (SAE)	JAPAN (JIS)	UK (BS)	SPAIN (UNE)	SWEDEN (SS)	RUSSIA (GOST)	
-	SWRCH20K	-	-	-	20	

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.