



QUALITY	C15E - C15R	W.NR. 1.1141-1.1140
REFERENCE NORM HOT ROLLED STEEL PRODUCTS		ISO 683-3
REFERENCE NORM BRIGHT STEEL PRODUCTS		UNI EN 10277

CHEMICAL COMPOSITION (%)

	C	Si	Mn	P (max.)	S (max)	Cr (max)	Mo (max)	Ni (max)	Cu end B
C15E	0,12 ÷ 0,18	0,15 ÷ 0,40	0,30 ÷ 0,60	0,025	0,035	0,40	0,10	0,400	0,30
C15R					0,020 ÷ 0,040				

MECHANICAL PROPERTIES HOT ROLLED STEEL PRODUCTS (ISO 683-3)

(+A) ANNEALED		(+N) NORMALIZED	
Hardness (HBW)		Hardness (HBW) Max.	
Max	Min	Min	Max
143		95	150

MECHANICAL PROPERTIES BRIGHT STEEL PRODUCTS (UNI EN 10277)

Size (mm)	(+SH) HOT ROLLED + PEELED		(+C) COLD DRAWN			(+A +SH) ANNEALED + PEELED	(+A+C) ANNEALED + COLD
	HBW Max.	Rm (MPa)	Rp0,2 (MPa) Min.	Rm (MPa)	A (%) min.	HBW Max.	HBW Max.
5 ≤ t ≤ 10			380	500 ÷ 800	7		238
10 < t ≤ 16			340	480 ÷ 780	8		231
16 < t ≤ 40	98 ÷ 178	330 ÷ 600	280	430 ÷ 730	9	143	216
40 < t ≤ 63	98 ÷ 178	330 ÷ 600	240	380 ÷ 670	11	143	198
63 < t ≤ 100	98 ÷ 178	330 ÷ 600	215	340 ÷ 600	12	143	178

Indicative values based on current regulations.