



QUALITY	S355J2	Wr. 1.0577
REFERENCE NORM HOT ROLLED STEEL PRODUCTS		EN 10025-2
REFERENCE NORM BRIGHT STEEL PRODUCTS		UNI EN 10277

CHEMICAL COMPOSITION (%)

Size (mm)	C (max.)	Si (max.)	Mn (max.)	P (max.)	S (max)	N (max)	Cu (max)
≤ 16	0,20	0,55	1,60	0,025	0,025		0,55
> 16 ≤ 40	0,20						
> 40	0,22						

MECHANICAL PROPERTIES HOT ROLLED STEEL PRODUCTS (UNI EN 10025-2)

Size (mm)	ReH (MPa) Min.	Size	Rm (MPa)	Size	A%
≤ 16	355	≤ 3	510 ÷ 680	≥ 3 ≤ 40	l 22 - t 20
> 16 ≤ 40	345	> 3 ≤ 100	470 ÷ 630	> 40 ≤ 63	l 21 - t 19
> 40 ≤ 63	335	> 100 ≤ 150	450 ÷ 600	> 63 ≤ 100	l 20 - t 18
> 63 ≤ 80	325	> 150 ≤ 250	450 ÷ 600	> 100 ≤ 150	l 18 - t 18
> 80 ≤ 100	315	> 250 ≤ 400	450 ÷ 600	> 150 ≤ 250	l 17 - t 17
> 100 ≤ 150	295			> 250 ≤ 400	l 17 - t 17
> 150 ≤ 200	285				
> 200 ≤ 250	275				
> 250 ≤ 400	265				

IMPACT TEST HOT ROLLED STEEL PRODUCTS (UNI EN 10025-2)

Size (mm)	Temperature (C°)	KV (J)
≤ 150	- 20°	27
> 150 ≤ 250		27
> 250 ≤ 400		27

MECHANICAL PROPERTIES BRIGHT STEEL PRODUCTS (UNI EN 10277)

Size (mm)	(+SH) HOT ROLLED + PEELED		(+C) COLD DRAWN		
	Hardness (HBW) Max.	Rm (MPa)	Rp0,2 (MPa) Min.	Rm (MPa)	A5 (%) min.
5 ≤ t ≤ 10			520	630 ÷ 950	6
10 < t ≤ 16			450	580 ÷ 880	7
16 < t ≤ 40	140 ÷ 187	470 ÷ 630	350	530 ÷ 850	8
40 < t ≤ 63	140 ÷ 187	470 ÷ 630	335	500 ÷ 770	9
63 < t ≤ 100	140 ÷ 187	470 ÷ 630	315	470 ÷ 740	9

Indicative values based on current regulations.