

# Technical information

## Hot rolled tubes in grade S355J2H/E355+AR

Characteristics	Hot rolled steel tube	
Outer diameter	+/- 1% with at least +/-0.5 mm and max +/- 10 mm	1) The positive deviation is limited by the weight tolerance.  2) Deviations larger than, but not exceeding 12.5% of the nominal wall thickness may occur in smooth transition areas over not more than 25% of the perimeter.
Wall	+ 10% <sup>1)2)</sup>	
Straightness	0.2% of whole length	
Weight	- 6% and + 8% on individual lengths	

Chemical composition						
C%	Si%	Mn%	P%	S%	Al %(tot)	N%
≤0.22	≤0.55	≤1.60	≤0.035	≤0.035	≤0.020	≤0.012

Yield strength MPa					Tensile strength MPa		Extension A <sub>5</sub> min. %				Impact strength	
Wall i n mm					Wall in mm		Along	Across			Test temp.	Min. average value <sup>1)</sup>
							Wall in mm					
<16	>16 ≤40	>40 ≤65	>65 ≤80	>80	<3	≥3 ≤65	≤40	>40 ≤65	<40	>40 ≤65		
355	345	335	315	295	510 - 680	490-630	22	22	20	20	-20	27

1) Impact strength tested at -20° C to minimum 27 J for wall thickness from and including 6 mm. Wall thickness ≤ 10 mm reduced value.