

Welded pipe according to UNE EN 10217-1 (DIN 2458)

Unalloyed steel welded tubes are supplied for pressure applications, with specific characteristics at room temperature. The symbolic and numerical designation, as well as the values that must meet the corresponding **Traction Tests** to which they are subjected.

Steel designation		Tensile test				
Symbolic	Numerical	Upper yield strength ReH min. for a wall thickness T (mm)		Tensile strength Rm	Elongation A min%	
		T≤16	16<T≤40		Longitudinal	Transversal
		Mpa*	Mpa*	Mpa*		
P235TR1	1,0254	235	225	360 a 500	25	23

* 1 Mpa = 1 N/mm

The **Chemical Composition** of the welded steel pipe will be according to the requirements of the table shown below:

Steel designation		C	Si	Mn	P	S
Symbolic	Numerical	% máx.				
P235TR1	1,0254	0,16	0,35	1,20	0,025	0,020

This Standard presents a **Table of Dimensions - Masses / Length Unit - Diameter and Thickness Tolerances** referring to the manufactured pipe used in our production process:

Thread Size	External diameter	Wall thickness	Tolerances in the External diameter		Mass per unit length of black pipe
			mm. (máx)	mm. (mín)	
Inch.	mm.	mm.			Kg/m.
1"	33,7	2,30	34,0	33,4	1,78
1,25"	42,4	2,30	42,7	42,1	2,27
1,5"	48,3	2,30	48,6	48,0	2,61
2"	60,3	2,30	60,6	60,0	3,29
2,5"	76,1	2,60	76,4	75,8	4,71
3"	88,9	2,90	89,2	88,6	6,15
4"	114,3	3,20	114,6	114,0	8,77
5"	139,7	3,60	140,0	139,4	12,10
6"	168,1	4,00	168,7	167,9	16,21
8"	219,1	5,00	219,5	218,7	26,40



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The types of length and the admissible **Longitudinal Tolerances** are reflected in the following table:

Longitud (L)	Tolerancia en Longitud para Diámetros Exteriores < 406,4 mm
m.	mm.
$L \leq 6$ m	[+ 10 mm , 0 mm]
$6 \text{ m} < L \leq 12$ m	[+ 15 mm , 0 mm]

The Total Deviation on the straightness of a length of tube L (arrow), must not exceed in mm the formula: **0.0015 x L**, where L is the length supplied by the manufacturer. Deviations from straightness over any length of one meter must not exceed **3 mm** in any case.

The Tolerance for Ovality Defect is included in the diameter tolerance.

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