

Dimensiones y Pesos Tubería acero con y sin costura convencionales de acuerdo a fórmula peso específico 7850 kg/m³

Nominal Diameter	Diameter Exterior	Espesor de Pared	Cédula	Weight		Peso	
				Lb/ft	Kg/m		
in	in	mm	Schedule / Designation				
60	60.000	1,524.0		0.688	17.48	436.26	649.22
				0.750	19.05	475.07	706.98
				0.812	20.62	513.81	764.63
				0.875	22.23	553.08	823.08
				0.938	23.83	592.27	881.40
				1.000	25.40	630.76	938.67
				1.062	26.97	669.16	995.82
				1.125	28.58	708.10	1053.77
				1.188	30.18	746.95	1111.59
				1.250	31.75	785.10	1168.36
				0.375	9.53	255.08	379.59
				0.406	10.31	276.03	410.77
				0.438	11.13	297.63	442.93
				0.469	11.91	318.54	474.04
				0.500	12.70	339.43	505.13
0.562	14.27	381.15	567.21				
0.625	15.88	423.46	630.17				
0.688	17.48	465.68	693.00				
0.750	19.05	507.14	754.71				
0.812	20.62	548.53	816.30				
0.875	22.23	590.50	878.76				
0.938	23.83	632.38	941.09				
1.000	25.40	673.52	1002.31				
1.062	26.97	714.57	1063.40				
1.125	28.58	756.21	1125.36				
1.188	30.18	797.75	1187.19				
1.250	31.75	838.56	1247.91				
0.469	11.91	338.60	503.89				
0.500	12.70	360.81	536.95				
0.562	14.27	404.20	601.51				
0.625	15.88	449.09	668.32				
0.688	17.48	493.89	734.99				
0.750	19.05	537.90	800.49				
0.812	20.62	581.83	865.87				
0.875	22.23	626.39	932.17				
0.938	23.83	670.86	998.35				
1.000	25.40	714.54	1063.35				
1.062	26.97	758.14	1128.24				
1.125	28.58	802.36	1194.04				
1.188	30.18	846.49	1259.72				
1.250	31.75	889.84	1324.23				
0.500	12.70	381.27	567.39				
0.562	14.27	428.17	637.19				
0.625	15.88	475.75	707.99				
0.688	17.48	523.24	778.67				
0.750	19.05	569.90	848.10				
0.812	20.62	616.47	917.41				
0.875	22.23	663.72	987.72				
0.938	23.83	710.87	1057.90				
1.062	26.97	803.44	1195.66				
1.125	28.58	850.35	1265.46				
1.188	30.18	897.17	1335.14				
1.250	31.75	943.17	1403.59				
0.500	12.70	402.60	599.13				
0.562	14.27	452.15	672.87				
0.625	15.88	502.41	747.67				
0.688	17.48	552.59	822.35				
0.750	19.05	601.89	895.72				
0.812	20.62	651.11	968.96				
0.875	22.23	701.04	1043.27				
0.938	23.83	750.89	1117.44				
1.000	25.40	799.86	1190.32				
1.062	26.97	848.75	1263.08				
1.125	28.58	898.34	1336.88				
1.188	30.18	947.85	1410.56				
1.250	31.75	996.49	1482.94				
0.562	14.27	476.12	708.54				
0.625	15.88	529.07	787.35				
0.688	17.48	581.94	866.02				
0.750	19.05	633.89	943.33				
0.812	20.62	685.75	1020.51				

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Nominal Diameter	Diameter Exterior	Espesor de Pared	Cédula	Weight		Peso	
				Lb/ft	Kg/m		
in	in	mm	Schedule / Designation				
80	80.000	2,032.0		0.875	22.23	738.37	1098.81
				0.938	23.83	790.90	1176.99
				1.000	25.40	842.52	1253.80
				1.062	26.97	894.05	1330.49
				1.125	28.58	946.33	1408.30
				1.188	30.18	998.53	1485.97
1.250	31.75	1049.81	1562.30				

Tabla de conversión de Peso

	Kilogramo	Ton. Métr.	Onza	Libra	Ton. Larga	Ton. Corta
Kilogramo	1	0.001	35.27	2.2	0.000984	0.001102
TON. Métr.	1000	1	35274	2204.62	0.98421	110.231
Onza	0.028349	0.000028	1	0.0625	0.000028	0.000031
Libra	0.45359	0.000454	16	1	0.000446	0.0005
L. Ton	1016.05	101.605	35840	2240	1	1.12
Sh. Ton	907.185	0.90718	32000	2000	0.89286	1

	Metro	Km.	Pulgada	Pie	Milla Terr.
Metro	1	0.001	39.3701	3.28084	0.000621
Km.	1000	1	39370.1	3280.84	0.62137
Pulgada	0.025399	0.000025	1	0.08333	0.000015
Pie	0.304794	0.000304	12	1	0.000189
Milla Terr.	1609.34	160.934	63360	5280	1

1 lb/ft = 1.4882 Kg/m
1 Kg/m = 0.672 Lb/ft.

TÉRMINOS CONVENCIONALES

API	American Petroleum Institute
ANSI	American National Standards Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society of Testing Materials
NACE	National Association of Corrosion Engineers
AWWA	American Water Works Association

SSAW	Spiral / helical Seam Submerged Arc Welded pipe
DSAW	Double seam Submerged Arc Welded pipe
LSAW	Longitudinal seam Submerged Arc Welded pipe (one seam)
ERW - HFI	Electric Resistance Welded High Frequency Induced
EFW	Electric Fusion Welded Tube

SRL	Single Random Lengths; minimum average lengths 17'6" - shortest length permissible is 9'.
DRL	Double random Lengths; minimum average lengths 35' - shortest length permissible is 14'.

Fórmula Peso Lineal Tubería Extremos Lisos

$P = (D - e) \cdot e \cdot 0.02466$

donde:

P = Peso en Kg/m
D = Diámetro exterior en milímetros
e = espesor de pared en milímetros

Presión Hidrostática (Fórmula Barlow)

$P \text{ (psi)} = \frac{2Se}{D}$ $P \text{ (MPa)} = \frac{2Se}{D}$

donde:

e = espesor de pared en pulgadas e = espesor de pared en milímetros
P = Presión en psi P = Presión en Mpa
D = Diámetro externo en pulgadas D = Diámetro externo en milímetros
S = Límite Elástico (Ys) en psi S = Límite Elástico (Ys) en Mpa