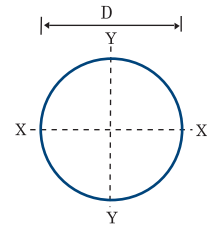


# OS

REDONDO SÓLIDO

Acero ASTM A-36	$f_y = 2530$	kg/cm <sup>2</sup>
Acero ASTM A-529-50	$f_y = 3515$	kg/cm
Acero ASTM A-572-50	$f_y = 3515$	kg/cm <sup>2</sup>
Acero SAE 1018	$f_y = 3670$	kg/cm <sup>2</sup>
Acero SAE 1045	$f_y = 4220$	kg/cm <sup>2</sup>
Acero SAE 1055	$f_y = 4580$	kg/cm <sup>2</sup>



Designación d diámetro		Peso		Area	Ejes X-X y Y-Y		
mm	in.	Kg/m	lb./ft.		I	S	r
				cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm
9.5	3/8	0.559	0.376	0.713	0.040	0.084	0.238
11.1	7/16	0.760	0.511	0.970	0.075	0.134	0.278
12.7	1/2	0.994	0.668	1.267	0.128	0.201	0.318
14.3	9/16	1.257	0.845	1.603	0.205	0.287	0.358
15.9	5/8	1.552	1.043	1.979	0.314	0.395	0.398
17.5	11/16	1.878	1.262	2.395	0.460	0.526	0.438
19.1	3/4	2.235	1.502	2.850	0.653	0.684	0.478
20.6	13/16	2.622	1.762	3.345	0.884	0.858	0.515
22.2	7/8	3.045	2.046	3.879	1.192	1.074	0.555
23.8	15/16	3.491	2.346	4.453	1.575	1.324	0.595
25.4	1	3.973	2.669	5.067	2.043	1.609	0.635
27.0	1 1/16	4.484	3.013	5.720	2.610	1.932	0.675
28.6	1 1/8	5.022	3.375	6.413	3.284	2.297	0.715
30.2	1 3/16	5.605	3.767	7.145	4.083	2.704	0.755
31.8	1 1/4	6.208	4.172	7.917	5.020	3.157	0.795
33.3	1 5/16	6.845	4.599	8.729	6.036	3.625	0.833
34.9	1 3/8	7.514	5.049	9.580	7.282	4.173	0.873
36.5	1 7/16	8.212	5.518	10.471	8.712	4.774	0.913
38.1	1 1/2	9.000	6.048	11.401	10.343	5.430	0.953
39.7	1 9/16	9.702	6.519	12.371	12.178	6.137	0.992
41.3	1 5/8	10.490	7.049	13.380	14.281	6.916	1.033
42.9	1 11/16	11.317	7.604	14.429	16.568	7.731	1.072
44.5	1 3/4	12.170	8.178	15.518	19.250	8.651	1.113
46.0	1 13/16	13.056	8.773	16.646	22.050	9.579	1.151
47.7	1 7/8	13.970	9.388	17.813	25.412	10.655	1.193
49.2	1 15/16	14.918	10.024	19.021	28.792	11.701	1.230
50.8	2	15.890	10.681	20.268	32.690	12.870	1.270
52.4	2 1/16	16.905	11.359	21.555	36.973	14.115	1.310