



TUBULON SOCIEDAD ANÓNIMA

MOLINA ARROTEA 1150 - LOMAS DE ZAMORA (1832) – BS. AS. - ARGENTINA

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EQUIVALENCIAS DE DUREZA A RESISTENCIA

RESISTENCIA MECÁNICA TRACCIÓN			D U R E Z A S			
Kgf/mm2	N/mm2	Psi x 1000	Vickers HV	Brinell HB	Rockwell HRb	Rockwell HRC
31	304	44.1	90	86	48	
32	314	45.5	94	89	51	
33	324	46.9	97	92	53.7	
34	333	48.3	100	95	56.1	
35	343	49.8	104	99	58.3	
36	353	51.2	107	102	60.3	
37	363	52.6	110	105	62.1	
38	373	54.0	113	108	63.7	
39	382	55.4	116	111	65.2	
40	392	56.9	120	114	66.6	
41	402	58.3	123	117	67.9	
42	412	59.7	126	119	69.2	
43	422	61.1	129	122	70.5	
44	431	62.6	132	125	71.8	
45	441	64.0	135	128	73.1	
46	451	65.4	138	131	74.4	
47	461	66.8	141	134	75.6	
48	471	68.2	144	137	76.7	
49	480	69.7	147	140	77.7	
50	490	71.1	150	143	78.7	
51	500	72.5	154	146	79.7	
52	510	73.9	157	149	80.7	
53	520	75.4	161	153	81.7	
54	529	76.8	164	156	82.6	
55	539	78.2	168	159	83.5	
56	549	79.6	171	162	84.4	
57	559	81.0	174	165	85.3	
58	569	82.5	177	168	86.2	
59	579	83.9	180	171	87.1	
60	588	85.3	183	174	87.9	
61	598	86.7	187	178	88.7	
62	608	88.2	190	181	89.5	
63	618	89.6	194	185	90.2	
64	628	91.0	197	188	90.9	
65	637	92.4	201	191	91.6	
66	647	93.8	204	194	92.2	
67	657	95.3	207	197	92.8	
68	667	96.7	210	200	93.4	
69	677	98.1	213	203	94	
70	686	99.5	216	206	94.5	(14.9)
71	696	101.0	220	209	95	(15.7)
72	706	102.4	223	212	95.5	(16.4)
73	716	103.8	226	215	96	(17.1)
74	726	105.2	229	218	96.5	(17.8)
75	735	106.6	232	220	96.9	(18.5)
76	745	108.1	235	223	97.3	(19.1)
77	755	109.5	238	226	97.7	(19.7)
78	765	110.9	240	228	98.1	20.3
79	775	112.3	244	231	98.6	20.9
80	785	113.8	247	234	99	21.5



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Kgf/mm2	N/mm2	Psi x 1000	Vickers HV	Brinell HB	Rockwell HRb	Rockwell HRC
81	794	115.2	250	237	99.5	22.1
82	804	116.6	253	240	99.9	22.7
83	814	118	256	243	(100.3)	23.3
84	824	119.4	259	246	(100.7)	23.9
85	834	120.9	262	249	(101.1)	24.5
86	843	122.3	265	252	(101.5)	25
87	853	123.7	269	255	(101.9)	25.5
88	863	125.1	272	258	(102.4)	25.9
89	873	126.5	275	260	(102.8)	26.3
90	883	128	278	263	(103.2)	26.8
91	892	129.4	281	266		27.2
92	902	130.8	284	269		27.7
93	912	132.2	287	272		28.1
94	922	133.7	291	275		28.6
95	932	135.1	294	278		29
96	941	136.5	297	281		29.4
97	951	137.9	300	284		29.8
98	961	139.4	303	287		30.2
99	971	140.8	307	291		30.6
100	981	142.2	310	294		31
101	990	143.6	314	298		31.4
102	1000	145	317	301		31.8
103	1010	146.5	321	304		32.2
104	1020	147.9	324	307		32.6
105	1030	149.3	327	310		33
106	1039	150.7	331	314		33.4
107	1049	152.2	334	317		33.7
108	1059	153.6	337	320		34.1
109	1069	155	340	322		34.4
110	1079	156.4	343	325		34.8
111	1088	157.8	346	328		35.1
112	1098	159.3	349	331		35.5
113	1108	160.7	352	334		35.8
114	1118	162.1	355	337		36.1
115	1128	163.5	358	339		36.4
116	1137	165	361	342		36.7
117	1147	166.4	363	344		37
118	1157	167.8	366	346		37.3
119	1167	169.2	368	348		37.6
120	1177	170.6	371	351		37.9
121	1186	172.1	374	354		38.2
122	1196	173.5	377	357		38.5
123	1206	174.9	380	360		38.8
124	1216	176.3	382	362		39.1
125	1226	177.7	384	364		39.4
126	1236	179.2	387	366		39.7
127	1245	180.6	390	369		39.9
128	1255	182	392	371		40.1
129	1265	183.4	394	373		40.3
130	1275	184.9	397	376		40.5



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Kgf/mm2	N/mm2	Psi x 1000	Vickers HV	Brinell HB	Rockwell HRb	Rockwell HRC
131	1285	186.3	399	378		40.7
132	1294	187.7	401	380		40.9
133	1304	189.1	403	382		41.1
134	1314	190.6	405	384		41.3
135	1324	192	407	386		41.5
136	1334	193.4	410	388		41.8
137	1343	194.8	413	391		42
138	1353	196.2	415	393		42.2
139	1363	197.7	418	395		42.4
140	1373	199.1	420	397		42.7
141	1383	200.5	423	399		42.9
142	1392	201.9	425	401		43.1
143	1402	203.4	428	403		43.3
144	1412	204.8	430	405		43.5
145	1422	206.2	432	407		43.7
146	1432	207.6	434	409		43.9
147	1441	209	436	411		44.1
148	1451	210.5	438	413		44.3
149	1461	211.9	440	415		44.5
150	1471	213.3	442	417		44.7
151	1481	214.7	445	420		44.9
152	1491	216.2	448	423		45.2
153	1500	217.6	451	426		45.4
154	1510	219	454	428		45.6
155	1520	220.4	457	430		45.8
156	1530	221.8	460	433		46.1
157	1540	223.3	462	435		46.2
158	1549	224.7	464	437		46.4
159	1559	226.1	466	439		46.6
160	1569	227.5	468	441		46.8
161	1579	229	471	443		47
162	1589	230.4	473	445		47.1
163	1598	231.8	475	447		47.3
164	1608	233.2	477	449		47.5
165	1618	234.6	479	451		47.7
166	1628	236.1	482	453		47.8
167	1638	237.5	485	455		48
168	1647	238.9	487	457		48.1
169	1657	240.3	489	459		48.3
170	1667	241.8	491	461		48.5