TABLA DE COMPARACIÓN DE DUREZA

HR 150kg	Rockwe ll HR 62,5	HR 60 kg	Vickers HV kg/mm²	Dureza Brine ll kg/mm²	Shore	Resistencia a la tro acero de carbon =0,36 HB	acción kg/mm2 aceroaleado =0,34 HB			
67	84	K-00-kg-	900	775	106	=0,36 HB 267	=0,34 HB 264			
66	_	83.9	870	752	101	275	256			
65	83	83.4	840	735	99	264	249			
64	-	82.8	815	710	96	255	241			
63	82	82.3	790	690	93	248	235			
62	-	81.8	760	670	91	240	228			
61	81	81.2	730	652	88	234	221			
60	-	80.7	700	635	85	227	214			
59	80	80.2	690	620	83	220	208			
57 56	79 <u>-</u>	79.1 78.6	650 630	580 571	78 75	210 205	196 194			
55	78	78.1	610	555	73	200	188			
54	_	77.5	590	540	72	195	184			
53	77	77.0	575	530	71	186	180			
52	_	76.5	560	515	69	178	175			
51	76	76.0	540	500	68	174	170			
50	-	75.4	525	487	67	170	165			
49	75	74.9	510	475	65.5	165	160			
48	- 7.4	74.4	490	462	64	161	156			
47 46	74 	73.8 73.3	480 465	447 436	62 60	157 153	152 148			
45	73	72.8	450	424	59	149	144			
44	72	72.3	440	413	57	145	141			
43	-	71.7	425	406	55	141	137			
42	_	71.2	415	398	54	137	133			
41	-	70.7	400	382	53	134	130			
40	70	70.2	390	377	52	131	127			
39	-	69.7	380	369	50	127	125			
38	69	69.1	370	353	49	125	120			
37 36	68	68.6 68.1	360 350	345 339	48 47	122 119	118 115			
35	-	67.6	345	331	46	116	113			
34	67	67.0	330	323	45	114	110			
33	_	66.5	320	316	45.5	111	108			
32	_	66.0	315	310	44	109	105			
31	65	65.6	310	305	43	107	103			
30	-	65.0	305	299	42	103.5	100			
29 28			295 285	290 282	41 40	101.5 99	98 96			
27			280	276	39	96.5	93.5			
26			270	268	38	94	91			
25		HR b	265	262	37	92.5	89			
24			260	257	36.5	90.5	87			
23		100 kg	255	252	36	87.5	85.5			
22		100	245	245	35.5	86.5	83			
21 20		100 99	240 235	240 234	35 34	84.5 82.5	81.5 79.5			
19		99	235	234	33.5	82.5 80.5	79.5 78			
18		97	225	223	33.3	78.5	76			
17		96	220	218	32	76.5	74			
16		95	215	213	31	75	72.5			
15		94	210	209	30.5	73.5	71			
14		93.5	205	204	30	71.5	69.5			
13		93	200	199	29.5	70	67.5			
12		92	195	195	29	69	66			
11 10		91 90	191 187.5	191 187	29 28.5	67.5 66	65 63.5			
9		89.5	187.5	184	28.3	65	63.5			
8		89	180	181	27.5	64	61.5			
7		88	177.5	178	27		60.5			

PESO TEÓRICO BARRAS DE ACERO

DIÁMETROS		\sim			DIÁME	TROS	\sim		
MILIMETROS	PULGADAS				m i limetros	PULGADAS			
3.17	1/8	0,06	0,07	0,06	228,59	9	322,	410,	355,
6.35	1/4	0,24	0,31	0,27	241,29	91/2	358,	457,	395,
7.93	5/16	0,38	0,49	0,42	250		385,	490,	424,
9.52	3/8	0,55	0,71	0,61	253,99	10	397,	506,	438,
10		0,61	0,78	0,68	266,69	10½	438,	558,	483,
12.69	1/2	0,99	1,26	1,09	279,39	11	481,	612,	530,
15.87	5/8	1,55	1,97	1,71	292,09	11½	526,	669,	580,
19.05	3/4	2,23	2,84	2,46	300		554,	706,	611,
20		2,46	3,14	2,71	300,79	12	572,	729,	631,
22.22	7/8	3,04	3,87	3,35	317,49	12 ½	621,	791,	631,
25.40	1	3,97	5,06	4,35	330,19	13	672,	855,	741,
28.57	1 1/8	5,03	6,41	5,55	342,89	13 ½	724,	923,	799,
30		5,54	7,06	6,11	350	13 ½	755,	961,	832,
31.74	1 1/4	6,21	7,91	6,85	355,59	14	779,	992,	859,
38.09	1 1/2	8,95	11,33	9,86	368,29	141/2	836,	1064,	922,
40		9,86	12,56	10,87	380,99	15	894,	1139,	986,
44.44	1 3/4	12,18	15,51	13,43	393,69	15½	955,	1216,	1053,
50		15,41	19,62	16,99	400		986,	1256,	1087,
50.79	2	15,91	20,25	17,54	406,39	16	1018,	1296,	1122,
57.14	2 1/4	20,13	25,63	22,20	419,09	16½	1082,	1378,	1194,
60		22,19	28,26	24,47	431,79	1 <i>7</i>	1149,	1463,	1267,
63.49	2 1/2	24,86	31,65	27,41	444,49	171/2	1220,	1550,	1343,
70		30,21	38,46	33,31	450		1248,	1589,	1376,
76.19	3	35,79	45,58	39,47	457,19	18	1288,	1640,	1421,
85.54	31/4	42,01	53,49	45,20	469,89	181/2	1361,	1733,	1501,
88.89	31/2	48,72	62,04	53,72	482,59	19	1435,	1828,	1583,
100		61,65	78,50	67,98	495,29	191/2	1512,	1925,	1667,
101.59	4	63,64	81,03	70,17	500	191/2	1541,	1962,	1699,
114.29	41/2	84,54	102,55	88,81	507,99	20	1591,	2025,	1754,
126.99	5	99,44	126,61	108,64	520,69	201/2	1671,	2128,	1843,
139.69	51/2	120,32	153,20	132,67	533,39	21	1754,	2233,	1934,
152.29	6	143,19	182,32	157,89	546,09	211/2	1838,	2341,	2027,
165.09	61/2	168,05	213,97	185,30	550		1865,	2374,	2056,
177.79	7	194,90	248,16	214,91	558,79	22	1925,	2451,	2122,
190.49	71/2	223,74	284,79	246,71	571,49	221/2	2013,	2563,	2220,
200		246,61	314,00	271,93	584,19	23	2104,	2679,	2320,
203.19	8	254,50	324,12	271,93	584,19	231/2	2196,	2796,	2483,
215.89	81/2	287,38	365,90	316,88	600		2219,	2826,	2447,