TECNICA/GUIDE/TCD-E140

CONVERSIONE DUREZZE ASTM

Conversione HV-HRC e HRC-HV-HB-HRA-HRB-Rm

Tabella. 2: conversione HRC-HV-HB-HRA-HRB-Rm per acciai al carbonio e legati

HRC Cono diam.	HV Vickers 30	HB Brinell 3000 kgf	HRA Cono diam.	Rm N/mm² MPa
68	940	—	85.6	—
67	900	—	85.0	—
66	865	—	84.5	—
65	832	739	83.9	—
64	800	722	83.4	—
63	772	706	82.8	—
62	746	688	82.3	—
61	720	670	81.8	—
60	697	654	81.2	—
59	674	634	80.7	2420
58	653	615	80.1	2330
57	633	595	79.6	2240
56	613	577	79.0	2160
55	595	560	78.5	2070
54	577	543	78.0	2010
53	560	525	77.4	1950
52	544	512	76.8	1880
51	528	496	76.3	1820
50	513	482	75.9	1760
49	498	468	75.2	1700
48	484	455	74.7	1640
47	471	442	74.1	1580
46	458	432	73.6	1520
45	446	421	73.1	1480
44	434	409	72.5	1430
43	423	400	72.0	1390
42	412	390	71.5	1340
41	402	381	70.9	1300
40	392	371	70.4	1250
39	382	362	69.9	1220
38	372	353	69.4	1180
37	363	344	68.9	1140
36	354	336	68.4	1110
35	345	327	67.9	1080
34	336	319	67.4	1050
33	327	311	66.8	1030
32	318	301	66.3	1010
31	310	294	65.8	970
30	302	286	65.3	950
29	294	279	64.6	930
28	286	271	64.3	900
27	279	264	63.8	880
26	272	258	63.3	860
25	266	253	62.8	850
24	260	247	62.4	820
23	254	243	62.0	810
22	248	*237*	*61.5*	*790*
21	243	*231*	*61.0*	*770*
20	238	*226*	*60.5*	*760*

HRB Sfera 1/16”	HV Vickers 30	HB Brinell 3000 kgf	HRA Cono diam.	Rm N/mm² MPa
100	240	*240*	*61.5*	*800*
99	234	*234*	*60.9*	*785*
98	228	*228*	*60.2*	*750*
97	222	222	59.5	715
96	216	216	58.9	705
95	210	210	58.3	690
94	205	205	57.6	675
93	200	200	57.0	650
92	195	195	56.4	635
91	190	190	55.8	620
90	185	185	55.2	615
89	180	180	54.6	605
88	176	176	54.0	590
87	172	172	53.4	580
86	169	169	52.8	570
85	165	165	52.3	565
84	162	162	51.7	560
83	159	159	51.1	550
82	156	156	50.6	530
81	153	153	50.0	505
80	150	150	49.5	495
79	147	147	48.9	485
78	144	144	48.4	475
77	141	141	47.9	470
76	139	139	47.3	460
75	137	137	46.8	455
74	135	135	46.3	450
73	132	132	45.8	440
72	130	130	45.3	435
71	127	127	44.8	425
70	125	125	44.3	420
69	123	123	43.8	415
68	121	121	43.3	405
67	119	119	42.8	400
66	117	117	42.3	395
65	116	116	41.8	385
64	114	114	41.4	—
63	112	112	40.9	—
62	110	110	40.4	**370**
61	108	108	40.0	**—**
60	107	107	39.5	**—**
59	106	106	39.0	**360**
58	104	104	38.6	**—**
57	103	103	38.1	**350**
56	101	101	37.7	**—**
55	100	100	37.2	**340**
54	—	—	36.8	—
51	—	**94**	35.5	**330**
49	—	**92**	34.6	**320**