Hardness conversion chart HRC – HV – HB – Rm

Conversion is approximate, for unalloyed and low-alloy steel (based on ASTM E140 / ISO 18265 tables). Rm ≈ 3.2 × HV is only a guide value.

Hardness conversion table (steel, approximate)

HRC	HV	HB	RM ≈ MPA
–	100	95	320
–	140	133	450
–	180	171	575
–	220	209	705
20	238	226	760
25	266	253	850
30	302	286	965
35	345	327	1 105
40	392	371	1 255
45	446	421	1 425
50	513	481	1 640
55	595	560	1 905
60	697	654	–
65	832	–	–
68	940	–	–

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