

Hardness profile for case depth determination

1" Diameter carbonitride case depth. Determine effective case depth at HRC50 report total case depth as well.

Test No	HV/500gf	HRC	Case Depth(in)
1	762.9	62.6	0.0030
2	677.0	59.1	0.0060
3	567.7	53.4	0.0105
4	531.4	51.2	0.0120
5	518.4	50.4	0.0130
6	496.0	48.9	0.0135
7	433.8	44.0	0.0180
8	394.7	40.3	0.0230
9	381.7	39.0	0.0280
10	372.1	38.0	0.0330
11	364.3	37.1	0.0380
12	357.3	36.4	0.0430
13	350.7	35.6	0.0480
14	351.7	35.7	0.0530
15	342.5	34.7	0.0580
16	341.6	34.6	0.0630
17	330.8	33.4	0.0680
18	335.6	34.0	0.0730
19	329.2	33.2	0.0780
20	328.2	33.1	0.0830
21	326.1	32.9	0.0880
22	325.8	32.9	0.0930
23	329.8	33.3	0.0980
24	323.7	32.6	0.1030
25	316.2	31.8	0.1080
26	323.3	32.6	0.1130
27	316.4	31.8	0.1180
28	325.8	32.8	0.1230
29	319.8	32.2	0.1280
30	316.0	31.7	0.1330
31	329.0	33.2	0.1380
32	324.1	32.7	0.1430
33	325.6	32.8	0.1480
34	327.2	33.0	0.1530
35	321.1	32.3	0.1580
36	318.3	32.0	0.1630
37	319.8	32.3	0.1680
38	319.9	32.3	0.1730
39	322.6	32.5	0.1780
40	323.4	32.6	0.1830
41	334.7	33.8	0.1880
42	325.5	32.8	0.1930

43	336.3	34.0	0.1980
44	323.7	32.6	0.2030
45	332.0	33.5	0.2080
46	338.9	34.3	0.2130
47	322.8	32.5	0.2180
48	327.7	33.1	0.2230
49	329.4	33.3	0.2280
50	341.3	34.6	0.2330

1	282.1	27.4	Core of the test sample
2	291.2	28.6	
3	302.5	30.1	



