

# Material hardness

Degree of hardness HRc	Degree of hardness HRb	Degree of hardness in vickers	Degree of hardness in brinnel	N/mm <sup>2</sup>	Afnor materials		
-20	67	114	114	400	XC18		
-9	74	131	131	460	34C10		
1	83	154	156	560	60 C40	S/steel 303	
10	90	183	182	635			
15	93	199	200	680	XC38	42 CD4	30 CD12
20	97	221	224	760	35NCD 6	20NCD2	
25	101	250	249	850	35NCD 6 pre-treated		
30	105	278	276	955			
35	109	320	323	1110			
40	112	385	370	1270			
45	115	460	427	1453	60 C40 through- hardened		
50	118	535	497	1670	35 NCD 6 through- hardened	42 CD 4 through- hardened	
55		639	545	1870	XC38 hrough- hardened		
57		694	576	1940			
60		746	601	2110	20NCD2 case- hardened	34C10 case- hardened	
63		867	652	2220	30 CD 12 nitrided		
65		940	682	2300			
67		1060	725	2400			
70		1170	760	2640			