



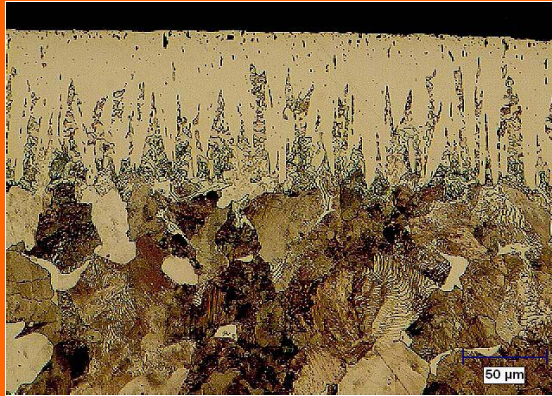
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BorCote™ applied to various steels.

Approximate equivalent hardness numbers for nonaustenitic steels (Rockwell 'C' range)

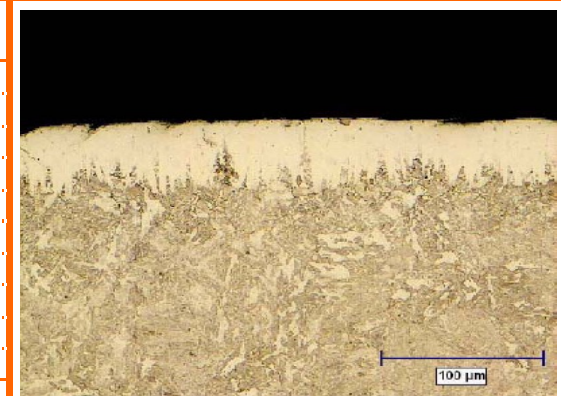
4140 material

Indent	Knoop Hardness	Approx. HRC
1	1564	76
2	2020	80+
3	1929	80+
4	1626	77
5	1898	80+
6	1600	77
7	1191	71
8	1418	74
9	1371	74
10	239	20
Base	250	22



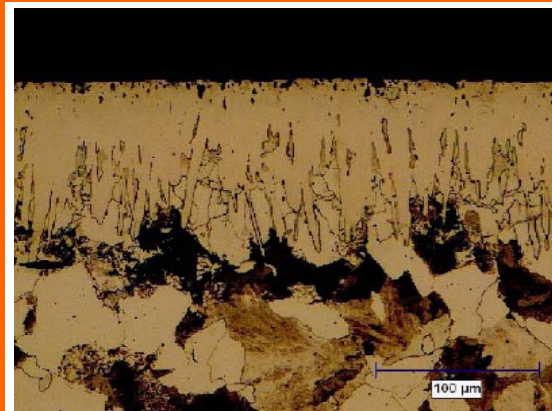
EN30B material

Indent	Knoop Hardness	Approx. HRC
1	2351	80+
2	1875	80+
3	2206	80+
4	1500	75
5	543	52
6	554	53
7	417	43
Base	457	46



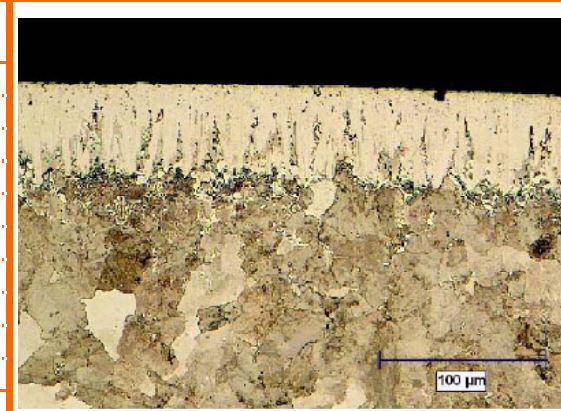
8620 material

Indent	Knoop Hardness	Approx. HRC
1	1692	78
2	2042	80+
3	2042	80+
4	1581	76
5	1520	76
6	1923	80+
7	1500	75
8	936	68
9	926	68
10	1323	73
Base	282	28



D2 Tool Steel

Indent	Knoop Hardness	Approx. HRC
1	2351	80+
2	2073	80+
3	1789	79
4	1895	80+
5	1815	80
6	1443	75
7	417	43
8	352	36
9	308	31
10	276	27
Base	264	25



The Knoop microhardness testing was conducted using a 25g load. The first indent was approximately 10 micron below the surface, with subsequent indents at 0.0005" intervals, spaced within guidelines suggested by ASTM standard C1 326-99.



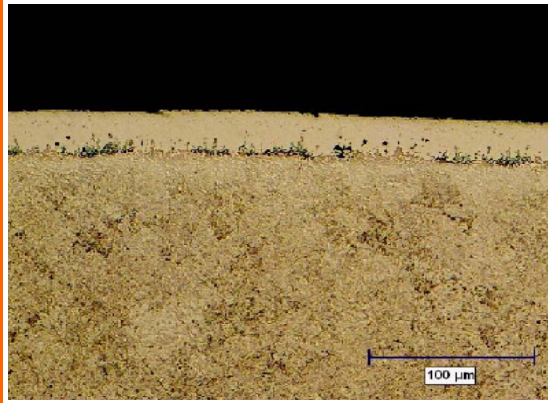
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BorCote™ applied to various steels.

Approximate equivalent hardness numbers for nonaustenitic steels (Rockwell 'C' range)

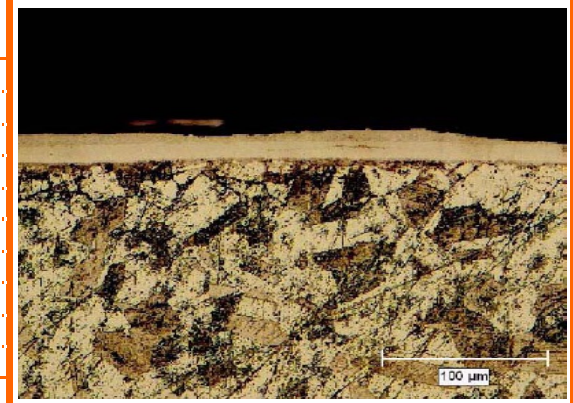
410 Stainless

Indent	Knoop Hardness	Approx. HRC
1	1110	71
2	1716	78
3	2073	80+
4	598	55
5	341	35
6	317	32
7	271	26
Base	264	25



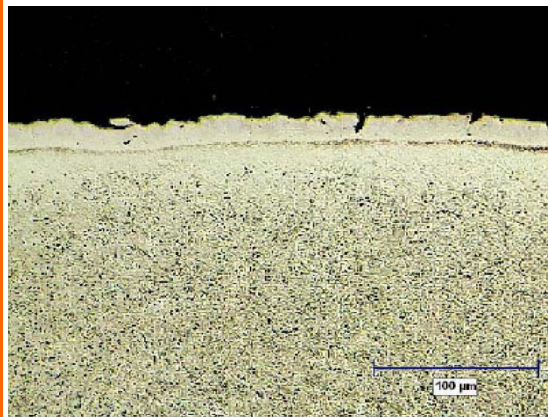
316 Stainless

Indent	Knoop Hardness	Approx. HRC
1	2868	80+
2	917	67
3	382	39
4	311	31
5	284	28
Base	256	23



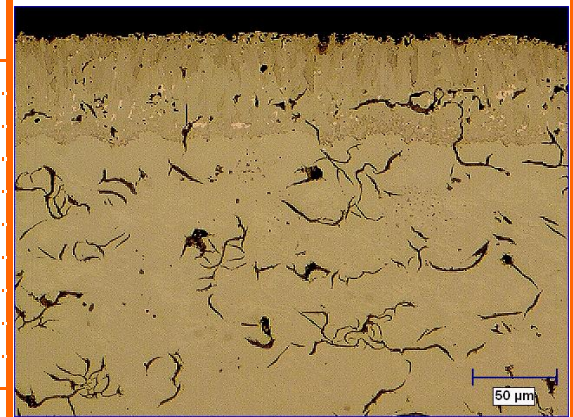
17-4 PH Stainless

Indent	Knoop Hardness	Approx. HRC
1	1868	80+
2	917	67
3	441	45
4	398	41
5	350	36
Base	339	34



Ni-Resist Cast

Indent	Knoop Hardness	Approx. HRC
1	1207	72
2	1568	76
3	730	61
4	1587	76
5	1244	72
6	995	69
7	463	46
8	255	23
9	212	17
Base	297	29



The Knoop microhardness testing was conducted using a 25g load. The first indent was approximately 10 micron below the surface, with subsequent indents at 0.0005" intervals, spaced within guidelines suggested by ASTM standard C1 326-99.