

## Approximate Hardness Conversion Numbers: Vickers to Rockwell C Hardness

Vickers (HV)	Rockwell C 150kgf (HRC)	Rockwell		Superficial Rockwell Number		
		A Scale 60 kgf (HRA)	D Scale 100kgf (HRD)	15-N Scale 15-kgf (HR15N)	30-N Scale 30-kgf (HR30N)	45-N Scale 45-kgf (HR45N)
940	68	85.6	76.9	93.2	84.4	75.4
900	67	85	76.1	92.9	83.6	74.2
865	66	84.5	75.4	92.5	82.8	73.3
832	65	83.9	74.5	92.2	81.9	72
800	64	83.4	73.8	91.8	81.1	71
772	63	82.8	73	91.4	80.1	69.9
746	62	82.3	72.2	91.1	79.3	68.8
720	61	81.8	71.5	90.7	78.4	67.7
697	60	81.2	70.7	90.2	77.5	66.6
674	59	80.7	69.9	89.8	76.6	65.5
653	58	80.1	69.2	89.3	75.7	64.3
633	57	79.6	68.5	88.9	74.8	63.2
613	56	79	67.7	88.3	73.9	62
595	55	78.5	66.9	87.9	73	60.9
577	54	78	66.1	87.4	72	59.8
560	53	77.4	65.4	86.9	71.2	58.6
544	52	76.8	64.6	86.4	70.2	57.4
528	51	76.3	63.8	85.9	69.4	56.1
513	50	75.9	63.1	85.5	68.5	55
498	49	75.2	62.1	85	67.6	53.8
484	48	74.7	61.4	84.5	66.7	52.5
471	47	74.1	60.8	83.9	65.8	51.4
458	46	73.6	60	83.5	64.8	50.3
446	45	73.1	59.2	83	64	49
434	44	72.5	58.5	82.5	63.1	47.8
423	43	72	57.7	82	62.2	46.7
412	42	71.5	56.9	81.5	61.3	45.5
402	41	70.9	56.2	80.9	60.4	44.3
392	40	70.4	55.4	80.4	59.5	43.1
382	39	69.9	54.6	79.9	58.6	41.9
372	38	69.4	53.8	79.4	57.7	40.8
363	37	68.9	53.1	78.8	56.8	39.6
354	36	68.4	52.3	78.3	55.9	38.4
345	35	67.9	51.5	77.7	55	37.2
336	34	67.4	50.8	77.2	54.2	36.1
327	33	66.8	50	76.6	53.3	34.9
318	32	66.3	49.2	76.1	52.1	33.7
310	31	65.8	48.4	75.6	51.3	32.5
302	30	65.3	47.7	75	50.4	31.3
294	29	64.8	47	74.5	49.5	30.1
286	28	64.3	46.1	73.9	48.6	28.9
279	27	63.8	45.2	73.3	47.7	27.8
272	26	63.3	44.6	72.8	46.8	26.7
266	25	62.8	43.8	72.2	45.9	25.5
260	24	62.4	43.1	71.6	45	24.3
254	23	62	42.1	71	44	23.1
248	22	61.5	41.6	70.5	43.2	22
243	21	61	40.9	69.9	42.3	20.7
238	20	60.5	40.1	69.4	41.5	19.6