

HARDNESS CONVERSION NUMBERS FOR STEEL



Brinell 3000 kg. Load 10 mm. Ball		Rockwell		Tensile Strength psi. Approx.	Brinell 3000 kg. Load 10 mm. Ball		Rockwell		Tensile Strength psi. Approx.
Diameter mm.	Hardness Number	B Scale	C Scale		Diameter mm.	Hardness Number	B Scale	C Scale	
2.25	745	---	65.3	---	3.75	262	103.0	26.6	125000
2.30	712	---	---	---	3.80	255	102.0	25.4	121000
2.35	682	---	61.7	---	3.85	248	101.0	24.2	118000
2.40	653	---	60.0	---	3.90	241	100.0	22.8	114000
2.45	627	---	58.7	---	3.95	235	99.0	21.7	111000
2.50	601	---	57.3	---	4.00	229	98.2	20.5	109000
2.55	578	---	56.0	---	4.05	223	97.3	18.8	104000
2.60	555	---	54.7	298000	4.10	217	96.4	17.5	103000
2.65	534	---	53.5	288000	4.15	212	95.5	16	100000
2.70	514	---	52.1	274000	4.20	207	94.6	15.2	99000
2.75	495	---	51.0	264000	4.25	201	93.8	13.8	97000
2.80	477	---	49.6	252000	4.30	197	92.8	12.7	94000
2.85	461	---	48.5	242000	4.35	192	91.9	11.5	92000
2.90	444	---	47.1	230000	4.40	187	90.7	10	90000
2.95	429	---	45.7	219000	4.45	183	90.0	9	89000
3.00	415	---	44.5	212000	4.50	179	89.0	8	88000
3.05	401	---	43.1	202000	4.55	174	87.8	6.4	86000
3.10	388	---	41.8	193000	4.60	170	86.8	5.4	84000
3.15	375	---	40.4	184000	4.65	167	86.0	4.4	83000
3.20	363	---	39.1	177000	4.70	163	85.0	3.3	82000
3.25	352	110.0	37.9	170000	4.80	156	82.9	0.9	80000
3.30	341	109.0	36.6	163000	4.90	149	80.8	---	---
3.35	331	108.5	35.5	158000	5.00	143	78.7	---	---
3.40	321	108.0	34.3	152000	5.10	137	76.4	---	---
3.45	311	107.5	33.1	147000	5.20	131	74.0	---	---
3.50	302	107.0	32.1	143000	5.30	126	72.0	---	---
3.55	293	106.0	30.9	139000	5.40	121	69.8	---	---
3.60	285	105.5	29.9	136000	5.50	116	67.6	---	---
3.65	277	104.5	28.8	131000	5.60	111	65.7	---	---
3.70	269	104.0	27.6	128000					