

Cincinnati Tool Steel Company

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Hardness Conversion Chart

BRINELL							
Diameter							Tensile
3000 Kg.							Strength
Load			ROCKWELL				1000
10 mm.	Hardness						Lb./Sq.
Ball	Number	C	B	A	15 - N	Shore	In.
2.25	745	65.3	-	84.1	92.3	91	-
2.30	712	-	-	-	-	-	-
2.35	682	61.7	-	82.2	91.0	84	-
2.40	653	60.0	-	81.2	90.2	81	-
2.45	627	58.7	-	80.5	89.6	79	-
2.50	601	57.3	-	79.8	89.0	77	-
2.55	578	56.0	-	79.1	88.4	75	-
2.60	555	54.7	-	78.4	87.8	73	298
2.65	534	53.5	-	77.8	87.2	71	288
2.70	514	52.1	-	76.9	86.5	70	274
2.75	495	51.0	-	76.3	85.9	68	264
2.80	477	49.6	-	75.6	85.3	66	252
2.85	461	48.5	-	74.9	84.7	65	242
2.90	444	47.1	-	74.2	84.0	63	230
2.95	429	45.7	-	73.4	83.4	61	219
3.00	415	44.5	-	72.8	82.8	59	212
3.05	401	43.1	-	72.0	82.0	58	202
3.10	388	41.8	-	71.4	81.4	56	193
3.15	375	40.4	-	70.6	80.6	54	184
3.20	363	39.1	-	70.0	80.0	52	177
3.25	352	37.9	(110.0)	69.3	79.3	51	170
3.30	341	36.6	(109.0)	68.7	78.6	50	163
3.35	331	35.5	(108.5)	68.1	78.0	48	158
3.40	321	34.3	(108.0)	67.5	77.3	47	152
3.45	311	33.1	(107.5)	66.9	76.7	46	147
3.50	302	32.1	(107.0)	66.9	76.7	46	143
3.55	293	30.9	(106.0)	65.7	75.5	43	139
3.60	285	29.9	(105.5)	65.3	75.0	-	136
3.65	277	28.8	(104.5)	64.6	74.4	41	131
3.70	269	27.6	(104.0)	64.1	73.7	40	128

3.75	262	26.6	(103.0)	63.6	73.1	39	125
3.80	255	25.4	(102.0)	63.0	72.5	38	121
3.85	248	24.2	(101.0)	62.5	71.7	37	118
3.90	241	22.8	100.0	61.8	70.9	36	114
3.95	235	21.7	99.0	61.4	70.3	35	111
4.00	229	20.5	98.2	60.8	69.7	34	109
4.05	223	(18.8)	97.3	-	-	-	104
4.10	217	(17.5)	96.4	-	-	33	103
4.15	212	(16.0)	95.5	-	-	-	100
4.20	207	(15.2)	94.6	-	-	32	99
4.25	201	(13.8)	93.8	-	-	31	97
4.30	197	(12.7)	92.8	-	-	30	94
4.35	192	(11.5)	91.9	-	-	29	92
4.40	187	(10.0)	90.7	-	-	-	90
4.45	183	(9.0)	90.0	-	-	28	89
4.50	179	(8.0)	89.0	-	-	27	88
4.55	174	(6.4)	87.8	-	-	-	86
4.60	170	(5.4)	86.8	-	-	26	84
4.65	167	(4.4)	86.0	-	-	-	83
4.70	163	(3.3)	85.0	-	-	25	82
4.80	156	(0.9)	82.9	-	-	-	80
4.90	149	-	80.8	-	-	23	-
5.00	143	-	78.7	-	-	22	-
5.10	137	-	76.4	-	-	21	-