Appendix C - **HARDNESS CONVERSION CHART**

Caution : Do not use this conversion chart without first reading notes on page .15.

EQUIVALENTS							
BRINELL			ROCKWELL				
1000 Kgf 10mm ball	Brinell impress. dia.	3000 Kgf 10mm ball	A	B	C	Tensile T.S.I.	Tensile N/mm2
200	**2.50**	601*	82.5		62	132	2039
193	**2.55**	578*	81		60	127	1961
185	**2.60**	555*	80		58	122	1884
178	**2.65**	534*	79		56	117	1807
171	**2.70**	514*	78		54.5	112	1730
165	**2.75**	495*	77.5		52.5	108	1668
159	**2.80**	477*	76.5		51	105	1622
154	**2.85**	461*	75.5		49	101	1560
148	**2.90**	444	74/5		47.5	98	1514
143	**2.95**	429	73.5		46	95	1467
138	**3.00**	415	73		44.5	92	1421
134	**3.05**	401	72		43	88	1350
129	**3.10**	388	71.5		41.5	85	1313
125	**3.15**	375	70.5		40	82	1266
121	**3.20**	363	70		38.5	80	1236
117	**3.25**	352	69.5		37.5	77	1189
114	**3.30**	341	68.5		36	75	1158
110	**3.35**	331	68		35	73	1127
107	**3.40**	321	67.5		33.5	71	1096
104	**3.45**	311	66.5		32	68	1050
101	**3.50**	302	66		31	66	1019
97.7	**3.55**	293	65.5		29.5	64	988
95	**3.60**	285	65		28,5	63	873
92.3	**3.65**	277	64		27	61	942
89.7	**3.70**	269	63.5		26	69	911
87.2	**3.75**	262	63		25	58	896
84.9	**3.80**	255	62.5		23.5	56	865
82.6	**3.85**	248	62		22.5	55	849
80.4	**3.90**	241	61.5		21.5	53	816

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Appendix C- **Hardness Conversion Chart** (continued):

Equivalents							
Brinell			Rockwell				
1000 Kgf 10 mm ball	Brinell impress. dia.	3000 Kgf 10 mm ball	A	B	C	Tensile T.S.I.	Tensile N/mm2
78.3	3.95	235	61	100	20	51	788
76.3	4.00	229	60	99	19	50	772
74.3	4.05	223	59.5	98	17.5	49	757
72.4	4.10	217	59	97	16	48	741
70.6	4.15	212	59	97	15	46	710
68.8	4.20	207	58.5	96	13.5	45	695
65.5	4.30	197	57.5	94	11	43	664
62.4	4.40	187	56.5	92	7	41	633
59.5	4.50	179	55.5	90	3	39	602
56.8	4.60	170	54	88		36	556
54.3	4.70	163	52.5	85		35	541
51.9	4.80	156	51	83		34	525
49.6	4.90	149	50	81		32	494
47.5	5.00	143	49	79		31	479
45.5	5.10	137	48	77		31	479
43.7	5.20	131	46.5	75		30	463
41.9	5.30	126	45	72		29	448
40.2	5.40	121	43.5	69		28	432
38.6	5.50	116	42	66		27	417
37.1	5.60	111	41	63		26	402
35.7	5.70	107	40	61		25	386
34.3	5.80	103	38.5	58		24	371
33.1	5.90	99.2					
31.8	6.00	95.5					

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