



**Hardness comparison table for steels**

These tables are a compilation of various conversion tables and values must be classed as for guidance purposes only.

Symbol (BS 970)	Tensile Strength			Brinell		Rockwell B	Vickers Diamond
	N/mm <sup>2</sup>	UK (t.s.i)	kp.s.i	3000 kg - 10mm ball 750 kg - 5mm ball	(100 kg load 1/16" diameter ball)		
	350	22.7	50.8		101		
	400	25.9	58.0		116	67	120
	450	29.1	65.3		130	74	135
	500	32.4	72.5		145	79	150
P	550	35.6	79.8		152	82	157
	600	38.8	87.0		175	87	180
Q	625	40.5	90.6		179	88	184
	650	42.0	94.3		193	92	198
	675	43.7	97.9		198	93	202
R	700	45.3	101.5		201	94	206
	725	46.9	105.1		213	95	218
	750	48.6	108.8		220	96	225
S	775	50.2	112.4		223	97	228
	800	51.8	116.0		233	99	238
	825	53.4	119.6		240	100	245
T	850	55.0	123.3		248	101	253
	875	56.7	126.9		255	102	260
	900	58.3	130.5		262	103	267
U	925	59.9	134.1		269	104	274
	950	61.5	137.8		276	105	282
	975	63.1	141.4		284	106	291
V	1000	64.7	145.0		293	107	310
	1025	66.4	148.6		300		307
	1050	68.0	152.2		306		313
W	1075	69.6	155.9		311	108	319
	1100	71.2	159.5		323		332
	1150	74.4	166.8		335	109	347
	1200	77.7	174.0		353		370
	1225	79.3	177.6		360	110	377
	1250	81.0	181.3		367		387