

BMS BULUT[®] MAKİNA

SANAYİ VE TİCARET LTD. ŞTİ.

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HARDNESS CONVERSION TABLE

ROCKWELL										BRINELL				VICKERS		TENSILE STRENGTH (kg/mm ²)		SHORE SCLEROSCOPE					
Diamond Cone 60 kg	1/16" ball 100 kg	Diamond cone 150 kg	Diamond cone 100 kg	1/8" ball 100 kg	1/16" ball 60 kg	1/16" ball 150 kg	1/8" ball 60 kg	1/8" ball 150 kg	SUPERFICIAL						ball 10 kg	ball 1000 kg	ball 10 kg		ball 3000 kg	Diamond pyramid		Non-alloyed Steels	Alloyed Steels
									Diamond cone			1 / 16" ball								Material			
									15 kg	30 kg	45 kg	15 kg	30 kg	45 kg						Ferrous	Non-ferrous		
HRA	HRB	HRC	HRD	HRE	HRF	HRG	HRH	HRK	15 N	30N	45N	15T	30T	45T	HB 10	HB 30	HV	HV (brass)	0.36	0.34			
86.5		70	78.5						94	86	77.5							1076				101	
86		69	78						93.5	85	76.5							1044				99	
85.5		68	77						93.2	84.5	75.5							940				97	
85		67	76						93	83.5	74.5							903				95	
84.5		66	75.5						92.5	83	73							870				92	
84		65	74.5						92	82	72							840				91	
83.5		64	74						91.8	81	71							800				88	
83		63	73						91.5	80	70							775				87	
82.5		62	72.5						91	79	69							762				86	
81.5		61	71.5						90.5	78.5	67.5							720				83	
81		60	71						90	77.5	66.5					654		697				81	
80.5		59	70						89.5	76.5	65.5					634		680				80	
80		58	69						89.3	75.5	64					615		653				78	
79.5		57	68.5						89	75	63					595		636	214		202	76	
79		56	67.5						88.5	74	62					577		617	208		196	75	
78.5		55	67						88	73	61					560		598	202		190	74	
78		54	66						87.5	72	59.5					543		580	195		185	72	
77.5		53	65.5						87	71	58.5					522		562	188		178	71	
77		52	64.5						86.5	70.5	57.5					500		545	180		170	70	
76.5		51	64						86	69.5	56					487		528	175		166	68	
76		50	63						85.5	68.5	55					475		513	171		162	67	
75.5		49	62						85	67.5	54					464		498	167		158	66	
74.5		48	61.5						84.5	66.5	52.5					451		485	162		153	64	
74		47	60.5						84	66	51.5					442		471	159		150	63	
73.5		46	60						83.5	65	50					432		458	156		147	62	
73		45	59						83	64	49					421		446	152		143	60	
72.5		44	58.5						82.5	63	48					409		434	147		139	58	
72		43	57.5						82	62	46.5					400		423	144		136	57	
71.5		42	57						81.5	61.5	45.5					390		412	141		133	56	
71		41	56						81	60.5	44.5					384		404	138		131	55	
70.5		40	55.5						80.5	59.5	43					371		392	134		126	54	
70		39	54.5						80	58.5	42					362		381	130		123	52	
69.5		38	54						79.5	57.5	41					353		370	127		120	51	
69		37	53						79	56.5	39.5					341		360	123		116	50	
68.5		36	52.5						78.5	56	38.5					330		350	119		112	49	
68		35	51.5						78	55	37					325		341	117		110	48	
67.5		34	50.5						77	54	36					315		332	113		107	47	
67		33	50						76.5	53	35					310		323	111		105	46	
66.5		32	49						76	52	33.5					301		318	108		102	44	
66		31	48.5						75.5	51.5	32.5					294		310	106		100	43	
65.5		30	47.5					92	75	50.5	31.5					286		302	103		97	42	
65		29	47					91	74.5	49.5	30					279		294	100		95	41	
64.5		28	46					90	74	48.5	29					271		286	98		92	41	
64		27	45.5					89	73.5	47.5	28					262		276	94		89	40	
63.5		26	44.5					88	72.5	47	26.5					257		269	92		87	39	
63		25	44					87	72	46	25.5					253		266	91		86	38	
62.5		24	43					86	71.5	45	24					247		256	89		84	37	
62		23	42.5					84	71	44	23					240		250	86		82	36	
61.5	100	22	41.5					82.5	70.5	43	22					233		244	84		79	35	
61	99	21	41					81	70	42	20.5					227		239	82		77	35	
60	98	20	40					79	69.5	41.5	19.5					220		234	79		75	34	
59.5	97							77.5								218		232	78		74	33	
59	96							76								216		230	78		73	33	
58	95							74								210		222	76		71	32	
57.5	94							72.5								205		213	74		70	31	
57	93							71								200		208	72		68	30	
56.5	92							69								195		204	70		66	29	
56	91							67.5								190		196	68		65	28	
55.5	90							66								185		192	67		63	27	
55	89							64								180		188	65		61	26	
54	88							62.5								176		184	63		60	26	
53.5	87							61								172		180	62		59	26	
53	86							59								169		176	61		58	25	
52.5	85							57.5								165		173	60		57	25	
52	84							56								162		170	59		56	25	
51	83							54								158		166	58		57	24	
50.5	82							52.5								156		163	56		56	24	
50	81							51								153		160	55		55	24	
49.5	80							49								150		158	54		54	24	
49	79							47.5								147		155	53		53	24	
48.5	78							46								144		152	52		52	24	
48	77							44								141		148	51		51	24	
47	76							42.5								139		146	50		50	24	
46.5	75							41								137		144	49		49	24	
46	74							39								135		142	48		48	24	
45.5	73							37.5								132		139	47		47	24	
45	72							36								130		137	46		46	24	
44.5	71							34.5								127		133	45		45	24	
44	70							32.5								125		131	44		44	24	
43.5	69							31								123		129	43		43	24	
43	68							29.5								121		127	42		42	24	
42.5	67							28								119		125	41		41	24	
42	66							26.5								117		124	40		40	24	
41.8	65							25								116		123	39		39	24	
41.5	64							23.5								114		121	38		38	24	
41	63							22								112		120	37		37	24	
40.5	62		</																				