

LEEB SCALES					BRINELL		VICKERS		ROCKWELL SCALES									SHORE			ULTIMATE TENSILE STRENGTH							
HLE	HLS	HLC	HLG	HLDL	HLD	HBS	HV10	C	A	B	D	E	F	G	H	K	15N	30N	45N	15T	30T	45T		kp	MPa			
11 N mm	11 N mm	3 N mm	90 N mm	11 N mm	11 N mm	3000 kg	10 kg	150 kg	60 kg	100 kg	100 kg	100 kg	60 kg				15 kg	30 kg	45 kg	15 kg	30 kg	45 kg		ksi	MPa			
890					925	1021.1	1087.1	71.8									97	92	87									
881					915	984.7	1047.5	70.8									96	91	86									
867					900	932.7	991	69.4									96	91	86									
853					886	886.8	941.1	68									96	91	86									
843					876	855.6	907.2	67									95	89	83									
833					866	825.5	874.5	66									95	89	83									
823					856	796.6	843.2	64.9									95	89	83									
813					846	768.8	813	63.9									95	88	81									
802					836	742.1	784	62.8									95	88	81									
792					830	728.5	767.1	62.2									95	87	80									
783					825	713.8	753.4	61.7									94	87	79									
776					818	696.5	734.5	60.9									94	86	78									
763					809	674.8	711.1	60									94	85	77									
766					800	653.9	688.4	59									93	84	75									
756					790	631.5	664.2	57.9									93	84	74									
746					783	609.9	640.8	56.8									93	83	73									
738					774	593.2	622.7	55.9									92	82	72									
732					765	579	607.4	55.2									92	81	71									
726					760	569	596.6	54.6									91	80	70									
722					756	561.2	588.2	54.1									91	79	69									
717					750	549.7	575.8	53.5									90	78	68									
711					744	538.4	563.6	52.8									90	77	66									
701					735	521.9	545.8	51.7									89	76	64									
692					726	506	528.6	50.7									89	75	63									
683					717	490.5	512	49.6									88	74	61									
675					708	475.5	495.8	48.6									88	73	60									
666					699	460.9	480.2	47.5									87	72	59									
657					690	446.8	465	46.4									87	71	57									
648					681	433	450.3	45.3									86	70	55									
640					672	419.7	436	44.2									86	69	53									
630					663	406.7	422.1	43									85	68	51									
622					654	394.1	408.7	41.9									85	67	49									
613					645	381.8	395.5	40.7									84	66	47									
604					636	369.8	382.8	39.5									84	65	45									
597					627	358.2	370.4	38.3									83	64	43									
590					618	346.8	358.3	37									83	63	41									
570					609	335.7	346.5	35.8									82	62	39									
560					600	324.9	335	34.5									82	61	37									
554					591	314.3	323.8	33.2									81	60	35									
550					582	303.9	312.9	31.9									81	59	33									
545					573	293.8	302.2	30.5									80	58	31									
537					564	284	291.8	29.1									80	57	29									
529					555	274.3	281.6	27.7									79	56	27									
521					546	264.9	271.6	26.2									79	55	25									
512					537	255.6	261.9	24.7									78	54	23									
505					528	246.5	252.4	23.2									78	53	21									
496					519	237.7	243.1	21.6									77	52	19									
490					510	229	234	20									77	51	17									
					505	224.2	229										76	50	15									
					500	219.6	224.1										76	49	14									
					495	214.9	219.3										75	48	12									
					490	210.3	214.5										75	47	11									
					485	205.8	209.8										74	46	9									
					480	201.3	205.1										74	45	8									
					475	196.9	200.5										73	44	7									
					470	192.6	196										73	43	6									
					465	188.2	191.5										72	42	5									
					460	184	187.1										72	41	4									
					455	179.8	182.7										71	40	3									
					450	175.6	178.4										71	39	2									
					445	171.6	174.2										70	38	1									
					440	167.5	170										70	37										
					435	163.5	165.9										69	36										
					430	159.6	161.8										69	35										
					425	155.7	157.8										68	34										
					420	151.9	153.9										68	33										
					415	148.2	150										67	32										
					410	144.5	146.2										67	31										
					405	140.9	142.4										66	30										
					400	137.3	138.7										66	29										
					395	133.8	135.1										65	28										
					390	130.3	131.6										65	27										
					385	127	128.1										64	26										
					380	123.6	124.7										64	25										
					375	120.4	121.4										63	24										
					370	117.2	118.1										63	23										
					365	114.1	114.9										62	22										
					360	111.1	111.8										62	21										
					355	108.1	108.8	</																				