

Hardness Conversion Table															جدول تبدیل سختی (فولاد و فولاد ریفتگی)	
Leeb	Vickers	Brinell	Rockwell					Rockwell Superficial						Shore	Tensile Strength	
HLK	HV 136° 10	HB 10 3000	HRA 120° 60	HRB 1/16" 100	HRC 120° 150	HRD 120° 100	HRF 1/16" 60	HR15N 120° 15	HR30N 120° 30	HR45N 120° 45	HR15T 1/16" 15	HR30T 1/16" 30	HR45T 1/16" 45	HSc	N/mm ²	
300	80	76.0													253	
310	85	80.7		43.0			80.6				74.5	43.5	13.5		269	
320	90	85.5		47.3			82.8				76.0	48.5	20.5		286	
330	95	90.2		51.3			84.8				77.3	51.0	25.0		302	
340	101	96.0		55.7			87.2				78.8	53.7	29.0		322	
350	107	102		59.6			89.4				80.1	56.4	33.1		342	
360	113	107		63.2			91.4				81.2	58.8	36.8		361	
370	120	114		67.0			93.6				82.4	61.4	40.5		384	
380	127	121		70.4			95.7				83.5	63.6	43.8		407	
390	134	127		73.4			97.6				84.4	65.6	46.6		430	
400	142	135		76.5			99.6				85.3	67.6	49.4		456	
410	150	143		79.2	0.4		101.4				86.2	69.3	51.9		481	
420	158	150		81.6	2.5		103.1				86.9	70.9	54.1		507	
430	166	158		83.8	4.6		104.7				87.6	72.2	56.1		533	
440	175	166		86.0	6.7		106.3				88.4	73.7	58.2		562	
450	183	174		87.8	8.7		107.6				89.0	74.8	59.9		588	
460	192	182		89.7	10.7		109.0				89.7	76.0	61.8		616	
470	201	191		91.4	12.6		110.2				90.3	77.1	63.6		645	
480	211	200		93.3	14.5		111.4				91.0	78.3	65.5		677	
490	220	209		94.9	16.4		112.4				91.5	79.2	67.2		706	
500	230	219		96.6	18.2		113.4				92.0	80.2	68.9	33.1	738	
510	240	228	60.9	98.3	20.3	40.3	114.3	69.8	41.7	19.5	92.5	81.0	70.3	34.5	770	
520	250	238	61.6	99.8	22.2	41.8	115.1	70.7	43.5	22.4	92.7	81.6	71.3	35.7	802	
530	260	247	62.4	101.0	23.9	43.0		71.6	44.9	24.2	92.8	82.0	71.9	37.0	834	
540	271	257	63.1	102.0	25.6	44.3		72.5	46.4	26.1				38.4	869	
550	282	268	63.9	104.0	27.1	45.5		73.4	47.8	28.0				39.8	904	
560	293	278	64.7	105.0	28.7	46.7		74.3	49.2	29.7				41.1	939	
570	304	289	65.4		30.1	47.8		75.1	50.6	31.5				42.5	975	
580	315	299	66.1		31.5	48.9		75.9	51.8	33.1				43.8	1010	
590	327	311	66.8		33.0	50.0		76.7	53.2	34.9				45.2	1049	
600	339	322	67.5		34.5	51.1		77.4	54.5	36.6				46.6	1088	
610	352	334	68.3		35.9	52.2		78.2	55.8	38.3				48.1	1130	
620	364	346	69.0		37.3	53.3		78.9	57.0	39.9				49.5	1170	
630	377	358	69.7		38.6	54.3		79.7	58.2	41.5				51.0	1212	
640	391	371	70.4		40.0	55.4		80.4	59.5	43.1				52.5	1258	
650	404	384	71.1		41.3	56.3		81.1	60.6	44.6				53.9	1302	
660	419	398	71.8		42.6	57.4		81.8	61.9	46.3				55.6	1352	
670	433	411	72.5		43.9	58.3		82.4	63.0	47.7				57.0	1399	
680	448	426	73.1		45.1	59.3		83.1	64.1	49.2				58.6	1450	
690	464	441	73.8		46.4	60.3		83.7	65.2	50.7				60.2	1504	
700	480	456	74.5		47.6	61.2		84.3	66.3	52.2				61.8	1559	
710	497	472	75.1		48.9	62.2		84.9	67.5	53.7				63.5	1619	
720	514	488	75.8		50.0	63.1		85.5	68.5	55.1				65.2	1678	
730	532	505	76.4		51.2	64.0		86.1	69.6	56.5				66.9	1743	
740	550	523	77.1		52.4	64.9		86.6	70.6	57.8				68.5	1808	
750	570	542	77.7		53.5	65.8		87.2	71.7	59.2				70.3	1881	
760	590	561	78.4		54.7	66.6		87.8	72.7	60.5				72.1	1955	
770	610	580	78.9		55.8	67.5		88.3	73.7	61.8				73.8	2030	
780	632	600	79.6		56.9	68.4		88.8	74.7	63.1				75.7	2114	
790	655	622	80.2		58.0	69.2		89.3	75.7	64.4				77.5	2204	
800	678		80.8		59.1	70.0		89.8	76.7	65.6				79.4		
810	703		81.4		60.2	70.9		90.3	77.7	66.8				81.3		
820	728		81.9		61.3	71.7		90.7	78.6	68.0				83.2		
830	755		82.5		62.4	72.5		91.2	79.6	69.2				85.2		
840	782		83.0		63.4	73.3		91.6	80.5	70.3				87.1		
850	811		83.6		64.4	74.1		92.0	81.4	71.4				89.1		
860	841		84.1		65.4	74.9		92.4	82.2	72.5				91.1		
870	873		84.6		66.3	75.6		92.7	83.0	73.5				93.2		
880	905		85.1		67.1	76.2		92.9	83.7	74.4				95.2		
890	940		85.6		67.9	76.8		93.1	84.3	75.2				97.4		

