

Comparative Hardness Scales for Steel

Rockwell C-Scale Hardness Number	Diamond Pyramid Hardness Number Vickers	Brinell Hardness Number 10-mm Ball, 3000-kgf Load	Shore Scleroscope Hardness Number	Tensile Strength Psi (approximate)
		Tungsten Carbide Ball		
68	940	-	97	-
67	900	-	95	-
66	865	-	92	-
65	832	(739)	91	-
64	800	(722)	88	-
63	772	(705)	87	-
62	746	(688)	85	-
61	720	(670)	83	-
60	697	(654)	81	320.000
59	674	(634)	80	310.000
58	653	615	78	300.000
57	633	595	76	290.000
56	613	577	75	282.000
55	595	560	74	274.000
54	577	543	72	266.000
53	560	525	71	257.000
52	544	512	69	245.000
51	528	496	68	239.000
50	513	481	67	233.000
49	498	469	66	227.000
48	484	455	64	221.000
47	471	443	63	217.000
46	458	432	62	212.000
45	446	421	60	206.000
44	434	409	58	200.000
43	423	400	57	196.000
42	412	390	56	191.000
41	402	381	55	187.000
40	392	371	54	182.000
39	382	362	52	177.000
38	372	353	51	173.000
37	363	344	50	169.000
36	354	336	49	165.000
35	345	327	48	160.000
34	336	319	47	156.000
33	327	311	46	152.000
32	318	301	44	147.000
31	310	294	43	144.000
30	302	286	42	140.000
29	294	279	41	137.000
28	286	271	41	133.000
27	279	264	40	129.000
26	272	258	38	126.000
25	266	253	38	124.000

Rockwell C-Scale Hardness Number	Diamond Pyramid Hardness Number Vickers	Brinell Hardness Number 10-mm Ball, 3000-kgf Load	Shore Scleroscope Hardness Number	Tensile Strength Psi (approximate)
		Tungsten Carbide Ball		
24	260	247	37	121.000
23	254	243	36	118.000
22	248	237	35	115.000
21	243	231	35	112.000
20	238	226	34	109.000
(18)	230	219	33	106.000
(16)	222	212	32	103.000
(14)	213	203	31	100.000
(12)	204	194	29	96.000
(10)	196	187	28	93.000
(8)	188	179	27	91.000
(6)	180	171	26	84.000
(4)	173	165	25	81.000
(2)	166	158	24	78.000
(0)	160	152	24	75.000

Values in () are beyond the normal range and are given for information only

Provided by :



PT. TUNASHARAPANENGINEERING
METAL COATING, GRINDING & CLADDING

PT. Tunas Harapan Engineering

Jl. Dumar Industri F2 - F3, Margomulyo
Surabaya, Indonesia, 60186

Phone : 62 - 31 - 7499142 / 7499143

Fax : 62 - 31 - 7480709

email : info@tunasharapan-engineering.com

www.tunasharapan-engineering.com