

Indentec Hardness Testing Machines Limited, West Midlands, DY9 8HX

Rockwell Scales

Scale Name	Indenter	_	Minor Load	Applications*
Regular Rockwell	muemen	LUau	LUau	Applications
Scales				
HRA	Diamond	60 kg	10 kg	Cemented carbides, thin steel and shallow case hardened steel
HRB	1/16" ball	100 kg	10 kg	Copper alloys, soft steels, aluminium alloys, malleable iron
HRC	Diamond	150 kg	10 kg	Steel, hard cast irons, pearlitic malleable iron, titanium, deep
TIIVO	Diamond	150 kg	10 kg	case-hardened steel and the materials harder than HRB100 Thin steel and medium case-hardened steel and pearlitic
HRD	Diamond	60 kg	10 kg	malleable iron
HRE	1/8" ball	100 kg	10 kg	Cast iron, aluminium and magnesium alloys, bearing metals
HRF	1/16" ball	60 kg	10 kg	Annealed copper alloys, thin soft white metals.
HRG	1/16" ball	150 kg	10 kg	Phosphor bronze, beryllium copper, malleable irons. Upper limit is HRG 92 to avoid possible flattening of the ball.
HRH	1/8" ball	100 kg	10 kg	Aluminium, Zinc, Lead
HRK	1/8" ball	150 kg	10 kg	Bearing metals and other very soft or thin materials. Use smallest ball and heaviest load that do not give and anvil effect
HRL	1/4" ball	60 kg	10 kg	[Same as HRK]
HRM	1/4" ball	100 kg	10 kg	[Same as HRK]
HRP	1/4" ball	150 kg	10 kg	[Same as HRK]
HRR	1/2" ball	60 kg	10 kg	[Same as HRK]
HRS	1/2" ball	100 kg	10 kg	[Same as HRK]
HRV	1/2" ball	150 kg	10 kg	[Same as HRK]
Superficial Rockwell				
Scales				
HR 15N	Diamond	15 kg	3 kg	Similar to C scale, but for thin materials
HR 30N	Diamond	30 kg	3 kg	[Same as HR15N]
HR 45N	Diamond	45 kg	3 kg	[Same as HR15N]
HR 15T	1/16" ball	15 kg	3 kg	Similar to B scale, but for thin materials
HR 30T	1/16" ball	30 kg	3 kg	[Same as HR15T]
HR 45T	1/16" ball	45 kg	3 kg	[Same as HR15T]
HR 15W	1/8" ball	15 kg	3 kg	Used for very soft materials
HR 30W	1/8" ball	30 kg	3 kg	Used for very soft materials
HR 45W	1/8" ball	45 kg	3 kg	Used for very soft materials
HR 15X	1/4" ball	15 kg	3 kg	Used for very soft materials
HR 30X	1/4" ball	30 kg	3 kg	Used for very soft materials
HR 45X	1/4" ball	45 kg	3 kg	Used for very soft materials
HR 15Y	1/2" ball	15 kg	3 kg	Used for very soft materials
HR 30Y	1/2" ball	30 kg	3 kg	Used for very soft materials
HR 45Y	1/2" ball	45 kg	3 kg	Used for very soft materials