

Ames Hardness Tester Instructions

Minimum Thickness Requirements for thin materials

In any given hardness scale, valid tests can only be obtained from materials above a certain thickness AND hardness. This chart can be used two ways.

For each thickness, this chart shows the lowest hardness material that can be tested in each scale.

For material having a given hardness, it shows the thinnest dimension of that material which can be tested in each scale.

MINIMUM THICKNESS INCHES	SCALE								
	15N	30N	45N	15T	30T	45T	HRC	HRB	HRA
0.006	92								
0.008	90								
0.010	88			91					
0.012	83	82	77	86					
0.014	76	785	74	81	79				
0.016	88	74	72	75	73	71			86
0.018		66	68	68	64	62			84
0.020		57	63		55	53			82
0.022		47	58		45	43	69		78
0.024			51		34	31	67		78
0.026			37			18	65	87	71
0.028			20			4	62	80	67
0.030							57	71	60
0.032							52	62	
0.034							45	52	
0.036							37	40	
0.038							28	28	
0.040							20		



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