



Force denotation in "HV load"	Ranges of test force, F in N	Maximum permissible length of the line of conjunction "a" in µm			
HV0.1 ≤ F < HV 0.2	0.009 ≤ F < 1.961	0.5			
HV 0.2 ≤ F < HV5	1.961 ≤ F < 49.03	1			
≥ HV5	F≥	2			

Table.1. Line of conjunction tolerances for a specific test load applied.

Scale / Range	Max. measurement deviation (E) in % DIN 50159, ASTM A1038, and GB/T 34205							Repeatability (R) / ≤				
	DIN & GB/T	ASTM	DIN & GB/T	ASTM	DIN & GR/T	ASTM	DIN & GB/T	ASTM	DIN & GB/T	ASTM	DIN & GR/T	ASTM
	<250 HV		250 -500 HV		500 - 800 HV		>800 HV		s 250 HV		> 250 HV	
HV 0.1	- 5	6	6	7	7	8		9	- 18	Not required	6	Not required
HV 0.3	5	6		7	7.	8		9	11.		6	
HV 0.8	16	- 6	4	7	5	- 8	- 6	9	-		- 6	
HV1	.4	5	4	5	5	7	6	7			6	
HV 5	4	5	4	5	4	7	4	7	5		5	
HV 10	4	5	4	5	4	7	-6	7	5		5	

Table 2. The summary of maximum tolerable errors for measurement deviation and repeatability from DIN 50157-2, ASTM A1038 and GB/T 34205, used but the calibration laboratories.



Figure.2. Schematic illustrations of potential probe applications that may lead to damage of the indenter. a) Lateral movements of the probe during the indentation. b) strong impact of the p





Terms Of Use
Website Data Privacy Policy

Copyright © 2024 Screening Eagle Technologies. All rights reserved. The trademarks and logos displayed herein are registered and unregistered trademarks of Screening Eagle Technologies S.A. and/or its affiliates, in Switzerland and certain other countries.