

AMITTARI INSTRUMENTS

Pencil Hardness Tester

Product Description

Coating hardness is the necessary measurement for the performance of coatings. This instrument applied the pencil scratch method. It is a fast and economical way to determine the film hardness using the drawing lead core or the pencil core. The pencil scratch method for coating hardness testing is a common method in the world since the 1980s. In China, this test method has also been promoted to the coating research and industrial production. The instrument can be used both in laboratory, and on site.

Measurement Principle

The Pencil Hardness Tester applies mechanical measurement. Keep three point touch the coating (two wheel, a pencil core), and a 45 degree angle between pencil and test surface. Push the instrument sliding, pencil draws the corresponding track in the coating. In the change of different pencil marks, the hardness value of the film can be determined.



Pencil Hardness Selection

Hard 6H-5H-4H-3H-2H-H-HB-B-2B-3B-4B-5B-6B Soft

Structure Diagram



- 1-Weights
- 2-Screw
- 3-Moving Direction
- 4-Pencil Core
- 5-Horizontal Mark

- 6-Pencil
- 7-Wheel
- 8-Coating
- 9-Base Material

Product Parameter

Load Weight	1000g /750g /500g
Measurement Angle	45° (Between Pencil and Measured Surface)
Three Touch Points	Two Wheels, A Pencil Core
Scratch Speed	About 1 mm/s
Standard Configuration	Pencil Hardness Tester
	1000g Weight
	750g Weight
	Pencils (6B-6H)
	Eraser
	Knife
	Horizontal Pad Block
	Sandpaper

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