

Pencil Hardness Tester

(Wolf-Wilburn)

The purpose of scratch hardness tests is to determine the resistance of coating materials or lacquers to scratch effects on the surface. This test is of particular value for furniture or vehicle lacquers, but is also a useful aid in the development of synthetic resins or other film forming materials.

Generally, scratch hardness is measured by moving a sharp object under a known pressure over the test surface. The result may either be the value of the pressure required to scratch through the test material if a scratching tool of constant hardness is used, or the hardness of the scratching tool is varied while constant pressure is applied.

- Twenty pencils (grade 9B to 9H) are used with a standard holder
- Pencils are moved with a fixed pressure and a fixed angle ensuring the least amount of operator error
- Pencils can be easily exchanged to minimize down time during the test

Ordering Information

Cat. No.	Description
PH-5800	Pencil Hardness Tester
PH-5801	Replacement pencil set (20)

Comes complete with:

Pencil hardness tester PH-5800
 Complete set of 20 pencils from 9B to 9H
 Pencil sharpener
 Abrasive 400 grit paper
 Carrying case

Pencils

The Pencil Hardness test is an effective method to test coatings for their hardness and their scratch wear resistance. ASTM test method D 3363 allows the use of pencils of known hardness to be moved over the surface of the test sample at a fixed angle and pressure to perform the test.

Ordering Information

Cat. No.	Description
PH-9500	Pencil Hardness Tester Set
PH-9501	Replacement Leads *
PH-5802	Lead Holder

Comes complete with:

Pencil Holder Set PH-9500, 9 grades of leads:
 B, HB, F, H, 2H, 3H, 4H, 5H, 6H, in packs of 12 each

Note: * When ordering a replacement lead set please specify the hardness grade.



Standards

ASTM	D 3363
BS	3900-E19
DIN EN	13523-4
ECCA	ECCA T
ISO	15184

Info!

DPM 100 Digital Pocket Microscope for digital documentation of test results please see page 222



Standards

ASTM	D 3363
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Accessories

Quantity
12 per pack, available are: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H
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