

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 of 750 grams 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
5800	Wolf-Wilburn Pencil Hardness
5801	Pencil set (20 pcs), for 5800

Comes complete with:

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

Standards

ASTM	D 3363
BS	3900-E19
ECCA	ECCA T
ISO	15184
DIN EN	13523/4 :2001-12

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.



Standards

ASTM D 3363

Ordering Information

Cat. No.	Description
9500	Pencil Hardness Tester Set
5802	Lead Holder, for 9500
9512	Replacement Leads, Grade 6B, for 9500
9513	Replacement Leads, Grade 5B, for 9500
9514	Replacement Leads, Grade 4B, for 9500
9515	Replacement Leads, Grade 3B, for 9500
9516	Replacement Leads, Grade 2B, for 9500
9517	Replacement Leads, Grade B, for 9500
9518	Replacement Leads, Grade HB, for 9500
9519	Replacement Leads, Grade F, for 9500
9520	Replacement Leads, Grade H, for 9500
9521	Replacement Leads, Grade 2H, for 9500
9522	Replacement Leads, Grade 3H, for 9500
9523	Replacement Leads, Grade 4H, for 9500
9524	Replacement Leads, Grade 5H, for 9500
9525	Replacement Leads, Grade 6H, for 9500

Accessories

Quantity
1
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack
12 per pack

Comes complete with:

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