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



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
SO	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	

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