

Elcometer 3080 Pencil Hardness Tester

Can be used in accordance with:
ASTM D 3363, BS 3900-E19, ECCA T4*,
EN 13523-4, ISO 15184, JIS K 5600-5-4



The set of Elcometer 3080 Hardness Testing Pencils is a simple but effective technique to evaluate the hardness of many coatings.

The pencil lead, prepared beforehand by using the special pencil sharpener and rubbing it on fine abrasive paper (400 grade), is maintained at an angle of 45° and pushed with uniform pressure on to the sample, leaving either a superficial trace or causing destruction down to the substrate.

The Elcometer 3080 Pencil Hardness Test is supplied complete with stand and a series of 14 pencils, ranging from 6B to 6H hardness values.

Technical Specifications

Part Number	Description
K0003080M203	Elcometer 3080 6B to 6H Pencil Hardness Test with Stand
Dimensions	330 x 280 x 330mm
Weight	1kg

Packing List

Elcometer 3080 Pencil Hardness Tester
Pencil set - (14 pencils, grades 6B - 6H)
2x Pencil Sharpeners
Abrasive Paper Block
Storage Stand
Operating Instructions

* Standards not in bold have been superseded but are still recognised in some industries

Accessories

T99923040-1	Pencil Sharpener (6H to 2B)
T99923040-2	Pencil Sharpener (3B to 6B)
T99923039	Set of 14 pencils (6B to 6H)
T99923042-1	12 Hardness Pencils (6B)
T99923042-2	12 Hardness Pencils (5B)
T99923042-3	12 Hardness Pencils (4B)
T99923042-4	12 Hardness Pencils (3B)
T99923042-5	12 Hardness Pencils (2B)
T99923042-6	12 Hardness Pencils (B)
T99923042-7	12 Hardness Pencils (HB)
T99923042-8	12 Hardness Pencils (F)
T99923042-9	12 Hardness Pencils (H)
T99923042-10	12 Hardness Pencils (2H)
T99923042-11	12 Hardness Pencils (3H)
T99923042-12	12 Hardness Pencils (4H)
T99923042-13	12 Hardness Pencils (5H)
T99923042-14	12 Hardness Pencils (6H)



Video



YouTube Video - How to measure coating hardness using the Wolff Wilborn Pencil Hardness Test
 (Click on the image to the left to view the video)

One of the most common methods of determining coating hardness is the pencil hardness test, also known as the Wolff-Wilborn method, where a pencil of a known hardness is pushed across the coating at a specified angle, under a constant force.

