

Elcometer 501 Pencil Hardness Tester



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At a glance

- *Applies a constant force of 7.5N at the required angle to meet the test methods.*
- *Supplied with 14 pencils from 6B to 6H hardness values in a plastic storage case.*

Elcometer 501 Pencil Hardness Tester

Using the same technique of evaluation with pencils as the Elcometer 3080, this instrument enables the pencil lead to be maintained at a constant force of 7.5N, and at the appropriate angle - which increases the reproducibility of the test.

The Elcometer 501 is supplied in a plastic carrying case and comes complete with a set of pencils in each of the 14 hardnesses from 6B to 6H, a pencil sharpener and a sandpaper block.

Also known as the Wolff-Wilborn test method.

Hardness Testers

Improved mechanical resistance is part of many quality requirements. One important criteria for assessing this feature is hardness.

Depending on the requirements there are various methods for testing hardness. Some are dedicated to characterise coatings and others are more suitable for testing bulk materials such as metals, plastics, rubber or elastomers.

Elcometer manufacture and supply a wide range of instrumentation designed for the hardness tests most frequently used in the industry – these include pendulum, scratching, indentation or rebound measuring methods.

Can be used in accordance with:	
ASTM D 3363	ECCA T4
EN 4.45.1	

Model Number	Description	Part Number
Elcometer 501	Elcometer 501 Pencil Hardness Tester	H501----1
Accessories	Set of Pencils (6B – 6H)	T50115771

Related products



Elcometer 3086

Similar to the Elcometer 501 and using the same pencil hardness technique, this motorised wolff-wilborn test not only ensures the correct angle and force is applied to meet the standard, but also allows the user to ensure a constant and uniform speed - further increasing the reproducibility of the test.



Elcometer 3080

The pencil hardness test is perhaps the most simple form of hardness test. Pencils are pushed into the sample and the coating hardness is identified by the trace generated. The Elcometer 3080 pencil hardness tester is supplied with a stand and a series of 14 pencils ranging from 6B to 6H.



Elcometer 3030/3040

The pendulum hardness tester works on the principle of the damping time of a pendulum oscillating on the sample. The amplitude of the oscillation reduces faster when the sample is soft. The Persoz and König methods differ by the dimension, time period and amplitude of the oscillation.

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