

Elcometer 3086 Motorised Pencil Hardness Tester



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Similar to the Elcometer 501 and using the same pencil technique, this motorised device in anodised aluminium can travel forwards (chip method) or backwards (indentation method) at a uniform speed - further increasing the reproducibility of the test.

The load on the lead is adjustable from 0 to 10N and each instrument is supplied with a lead holder and a set of 12 leads in each of the 14 hardnesses.

Also known as the Wolff-Wilborn test.

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.

At a glance

- Motorised unit providing greater repeatability.
- Adjustable weight to provide a range of applied forces to meet your specific required - adjustable from 0-10N.
- Supplied with 14 hardness values.

Can be used in accordance with:
ASTM D 3363

Model	Description	Part Number	
Elcometer 3086/1	Elcometer 3086 Motorised Pencil Hardness Tester 220V	K0003086M001	
Elcometer 3086/2	Elcometer 3086 Motorised Pencil Hardness Tester 110V	K0US3086M001	
Accessories	Spare Lead Holder	KT003084P020	
Packing List	Elcometer 3086 Motorised Pencil Hardness Tester, Lead-holder, Lead set (14 cases of leads, grades 6H to 6B, 12 leads per case), Setting block, Abrasive sharpener, Abrasive paper & Operating instructions		
Hardness Leads – 12 leads in each box - See below			
Description	Part Number	Description	Part Number
Hardness leads 6B	KT003084P001	Hardness leads F	KT003084P008
Hardness leads 5B	KT003084P002	Hardness leads H	KT003084P009
Hardness leads 4B	KT003084P003	Hardness leads 2H	KT003084P010
Hardness leads 3B	KT003084P004	Hardness leads 3H	KT003084P011
Hardness leads 2B	KT003084P005	Hardness leads 4H	KT003084P012
Hardness leads B	KT003084P006	Hardness leads 5H	KT003084P013
Hardness leads HB	KT003084P007	Hardness leads 6H	KT003084P014

Related products



Elcometer 501

The Elcometer 501 Wolff-Wilborn Pencil Hardness Tester uses the same technique as the Elcometer 3080, but ensures that the pencil lead is maintained at a constant force of 7.5N and at the appropriate angle to meet the standards.



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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