

# Elcometer 3092 Sclerometer Hardness Tester



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**At a glance**

- Simple to use pocket scratch / hardness tester.
- Supplied with three scales to test 0-300, 0-1000 and 0-2000g.

**Elcometer 3092 Sclerometer Hardness Tester**

The body of the instrument contains a round tip, compressed by one of the three springs corresponding to the three printed scales: 0-300, 0-1000, 0-2000g, and a cursor fitted with a screw lock.

By making short, straight movements while gradually increasing the load, the user can observe the force at which the tip leaves a mark or destroys the coating.

Each Elcometer 3092 is supplied in a case with 0.75mm (0.03") diameter tungsten carbide tip and 3 springs.

**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.



Model	Description	Part Number
Elcometer 3092	Elcometer 3092 Sclerometer Scratch Tester - 3 Ranges (0-300g, 0-1000g & 0-2000g)	K0003092M201
<b>Accessories</b>	Tool with Point 0.50mm in Metal Carbide	KT003092P001
	Tool with Point 0.75mm in Metal Carbide	KT003092P002
	Tool with Point 1.00mm in Metal Carbide	KT003092P003
	Tool with Diamond Point for Glass Industry – ISO	KT003029P008
	Spring - Range 0 - 300g	KT003092P004
	Spring - Range 0 - 1000g	KT003092P005
	Spring - Range 0 - 2000g	KT003092P006
	Spring - Range 0 - 3000g	KT003092P007
Packing List	Elcometer 3092 Sclerometer Hardness Tester, Tool with 0.75mm (0.03") diameter tungsten carbide tip, 3 springs (natural, red and blue), Carry case & Operating instructions	

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## Related products



Elcometer 3000

Designed to evaluate resistance to scratching. The Clemen hardness test, available as either a motorised or a manual version, is fitted with an hemispherical ball and is gradually lowered gradually onto the surface of the sample and moved 6cm. Depending on the purpose of the test and the load applied, varying degrees of penetration of the tool into the coating are observed.



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.



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.



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