



TQC Sheen Mechanized Scratch Tester

SH705

Coating performance is related to many factors that include the hardness of the coating and other physical properties such as adhesion, lubricity, resilience, as well as the coating thickness and curing conditions.

It is a quantifiable indication of the extent to which serious damage is resisted when a weight loaded stylus is raked across a relatively smooth, coated flat surface. A motor driven machine is recommended as it provides better test repeatability.

Mechanized Scratch Tester

The TQC Sheen Mechanized Scratch Tester is a robust machine with all the moving parts well encased. It uses a big motor for operating the moving slide holding the sample at a constant speed of 35 mm/ s. The rigid stylus arm with counterweight prevents whip or chatter at the stylus ball-point.

A 1 mm tungsten carbide ball ended stylus is held in a chuck at ex-actly 90° to the test panel. It can be easily removed for inspection and replacement. The tungsten carbide tipped stylus, when used with care, provides a long tool life without the need to replace the stylus after each test.

Weights providing increments of 0,5 N up to a total of 20 N force are loaded on the stylus arm, additional weights up to maximum 10 kg loading are available as optional accessories for harder coatings.

Standard metal test panels of 150 x 100 mm with thickness up to 1,6 mm can be used. When non-metal plates are used they will still be scratched but registration is visual on the panel only.

Compressible test panels are not supported. Coating thickness is 0,3 mm maximum and linked to the 0,5 mm radius stylus tip.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Standards:

ISO 1518-1:2023

International standards

The Mechanized Scratch Tester SH705 includes the 20 N weight set required by ISO 1518-1:2010.

We continue to offer the 2 kg weight set specified by preceding standards as an accessory.

Ordering Information:

Catalog Number	Article Description
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SH0530	Mechanised Scratch Tester 230 VAC, 50 Hz
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SH0614	Mechanised Scratch Tester 110 VAC, 60 Hz
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Accessories:

Catalog Number	Article Description
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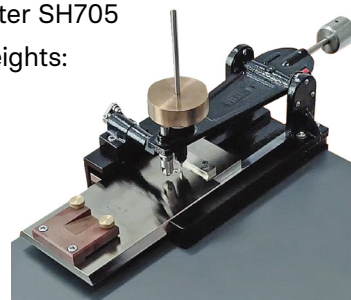
SH4811	Set of weights up to 20 N: 2x0,5 N, 1x1,0 N, 2x2 N, 1x4 N, 1x10 N
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SH4783	Set of weights up to 2 kg: 1x100 g, 2x200 g, 1x500 g, 1x1000 g
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SP0150	Spare 0,5 mm radius stylus A
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Scope of Supply:

- Mechanized Scratch Tester SH705
- ISO1518-1 20 N set of weights: 2x0,5 N, 1x1,0 N, 2x2 N, 1x4 N and 1x10 N
- Hemispherical 0,5 mm radius stylus A
- Power cord



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