

Tackiness Tester



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The Tackiness Tester, K95200, has been designed to provide an objective and qualitative test for tackiness. The tester quantifies the cohesive and adhesive tactile properties of greases by measuring the sample in Newton's and replaces the old finger sticky test method with a numerical and graphical result.

Greases are widely used in machinery and automotive components to protect components from frictional and wear losses. As a result, interaction properties like tackiness become crucial factors and often dictate their performance, especially when it comes to bearing lubrication. This property is related to microstructural aspects of grease such as thickener network, wetting agents and additives.

Measurement Principle

The measurement system consists of two parallel discs which are precisely aligned. The lower disc is connected to a high precision force measurement system and the upper disc to an electro mechanical cylinder system. All components are adjusted together to make sure that the outcome is as reliable as possible. The automatic self-calibration process before the test procedure starts, gives the highest level of confidence. The intuitive software interaction with the user via the color touch panel is as easy as possible. A visual guided step by step instruction helps to start immediately.

The optional available heating and cooling upgrade allows grease tackiness tests at different temperatures up to a maximum of 80°C (175°F)

Test Method

Measures the cohesive and adhesive tactile properties of greases and provides numerical and graphical results.

Specifications

Accuracy: < 0.1 N
Max. Test Force: 100 N
Load System: Electromechanical
Test Sample Size: 5 g
Test Time: Approx. 120 s
Results: in N, N/mm², N/in²
Test Speed: Standard 250 mm/s
PLC: Siemens System + HMI
Interfaces: Ethernet
Temperature Range (Optional): ambient - 80°C (50 - 175°F)
Voltage: 110 – 230 V / 50 – 60 Hz
Power: 150 W max.

Working Procedure

The Koehler K95200 is simple to use by following the below 5 steps:

- Make sure that the discs are clean and dry
- Select new test sequence on the touch screen
- Load the lower disc with the test sample (approx. 5 g of grease is enough)
- Press the Start button
- See the result displayed on the screen

Included Accessories

Basic Machine
Multi Range Power Supply
PLC and HMI Software
10x Syringe
2 Discs (50 mm)
Verification Tools
Documentation

Dimensions HxWxD

620 x 300 x 320 mm (24.4 x 11.8 x 12.6 in.)
Weight: 30 kg (66 lb)

Ordering Information

Catalog No.

K95200	Tackiness Tester, 110-230V, 50/60Hz
K95200-1	Temperature Control / Heating Option for Tackiness Tester