

Product Information Model 6578 Electronic Air Permeability Tester **ToniPERM** Standard

Application

The air permeability tester ToniPERM is designed for the determination of the specific surface of powders, especially suitable for the permanent control of manufacturing characteristics in the daily laboratory work according to EN 196 and ASTM C 204.

Advantages

- 5.7" color display with touch screen operation for intuitive and user-friendly operation
- integration of the environmental temperature into the calculation of the specific surface
- density, initial weight and porosity selectable acc. to the specific samples
- calibration using reference materials feasible
- any number of K-factors can be stored
- runtime indication resolution: 0.1 sec
- calculation of the specific surface based on any number of single measurements on one powder bed
- integrated data base for storage of up to 300 measuring results including all test parameters
- integrated data base for storage of materials with different density and porosity
- possibility to connect a printer for automatic raw data print out
- USB interface for easy and fast export of test results including the test parameters to a data carrier in CSV format
- connection to laboratory information and management systems via software ToniLINK CEB
- ability to subsequently change the correction factor (K-factor) for an extended result evaluation

Design / Operating Principle

Using the piston the powder will be compacted within the permeability cell to a defined volume. After the selection of the test material from the material data base and the entry of the test-specific parameters, the test is carried out fully automatically.

Via a U-tube manometer, which is equipped with light barriers, a negative pressure is generated by means of a solenoid valve and a diaphragm pump. This negative pressure is compensated by an amount of air flowing through the powder bed in the measuring cell. Then the



ToniPERM automatically evaluates the test, displays the result and stores the result including the test parameters in the database.

Scope of Dilevery

Basic unit ToniPERM Standard

Measuring cell

consisting of: cell, piston and perforated disc

Stand

for the measuring cell

Tamper

for placing the filter paper discs and pressing out the sample

Syringe

for calibration of the instrument

Pipette

for filling the U-tube manometer

Funnel

for filling the measuring cell with test material

Power cable

to connect the instrument

Hexagon socket wrench 2.5 mm

for commissioning the device

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Electronic Air Permeability Instrument **ToniPERM** Standard

Accessories / Consumables

Manometer fluid, model 6500.050

light mineral oil / 3 bottles of 30 ml each

Filter paper discs, model 7201.004.1

Ø 12.7 mm / porosity 5-8 µm / pack of 1000 pieces

Reference material, model 7201.002

fineness approx. 2800 cm²/g, officially certified

Reference material, model 7201.003

fineness approx. 4000 cm²/g, officially certified

Reference material, model 7201.009

fineness approx. 6000 cm²/g, officially certified

Reference material, model 7201.010

fineness approx. 9000 cm²/g, officially certified

Reference cement 114q, model 7201.007

fineness approx. ca. 3700 cm²/g, officially certified

Further reference materials are available on request.

For further information please contact:

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Technical Data

Power supply		
- voltage	V	~110 / ~230
- frequency	Hz	50-60
- power consumption	kW	0.1
Dimensions		
- width	mm	270
- depth	mm	370
- height	mm	430
Weight	kg	17