

PERMOBIL

Mobile permeation test rig according to IFA in compliance with EN 374 and EN ISO 6529

(IFA = (Institute for Occupational Safety and Health of the German Social Accident Insurance; PID = Photoionisationsdetektor)

The measurement is performed in a tempered Permeation – Measuringcell according to EN 374 & EN ISO 6529. In the measuring cell, the sample is clamped. After that the product chamber is filled with the test chemical, the collecting chamber is perfused with purified ambient air. Lead a substream of gas to a suitable detector (for example PID) for concentration measurement. The recording of the detector signal provides the permeation curve of the investigated material chemicals pair and allows the determination of the permeationrate.

The construction of the compact and mobile system was based on a development of IFA: „Aus der Arbeit des IFA, Nr. 0304“ (Download : www.dguv.de/ifa). The device was designed for testing the permeability for chemicals of chemical protective gloves and chemical protective clothing materials.



The delivery of the PERMOBIL includes:

- portable enclosure made of aluminum profiles and Plexiglas
 - Integrated fan and temperature control, which under normal ambient temperature using heating (300 W) and Peltier cooling (> 100 W) ensures EN-compliance with the required test temperature of $23\text{ °C} \pm 1\text{ °C}$
 - Integrated pump with flow meter and regulator to the suction of the ambient air through a combination of commercially available filters (gas and particle)
 - Permeation – Measuringcell according to EN 374 & EN ISO 6529
 - Air-Expansion tank made from glass
 - Technical Data: 230 V, Weight: ca.13 kg,
 - Dimensions: Height = 365 mm (460 mm with filter!), Width = 450 mm, Depth = 300-375 mm,
- part-number: 717420**

The PID – Detector is not included In the delivery:

We recommend as PID, the Sirius by MSA Auer GmbH – a portable measuring instrument