

## Workstation with one Fluid-PermCell NW50-liquid Step by Step Guide

**Determination of the chemical permeation of liquid or gaseous test chemicals with a continuous contact to the protective clothing or glove material sample and the liquid collection medium deionized water  
EN 16523-1 (replacement for EN 374-3)**

The workstation with a Fluid-PermCell NW50-Liquid consisting of:

Art.-Nr.: 280-0354356	Fluid-PermCell NW50-liquid
Art.-Nr.: 230-0207607	Digital Peltier thermostat PT31.
Art.-Nr.: 170-0359719	Conductivity and pH meter Multi3510 IDS incl. Sensoren: TetraCon® 925 und SenTix® 940
Art.-Nr.: 220-0287609	magnetic stirrer MIX 1 eco



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**Optional:** Art.-Nr.: 170-0401043  
Digital IDS redox electrode SenTix® ORP-T 900



delivery state: Fluid-PermCell NM50-liquid.



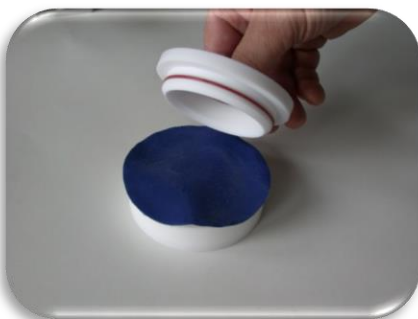
Disconnect hose connections via quick-release coupling.



Unscrew all 4 screw connections.



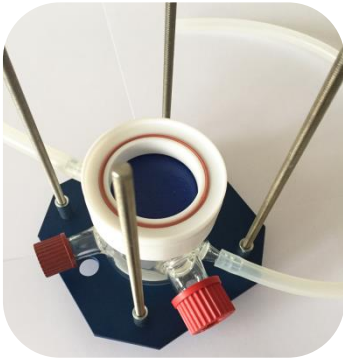
Remove PTFE sample holder.



Place the material sample on the lower side of the sample holder.



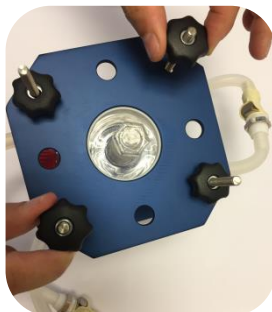
Assemble the upper and lower parts of the sample holder.



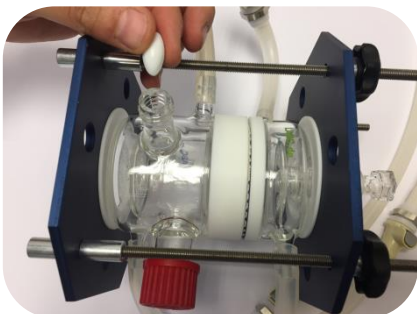
Place the sample holder in the device.



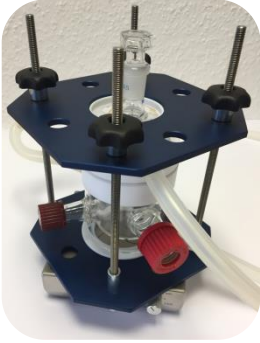
Insert the upper glass vessel and close the hose connection using the quick coupling.



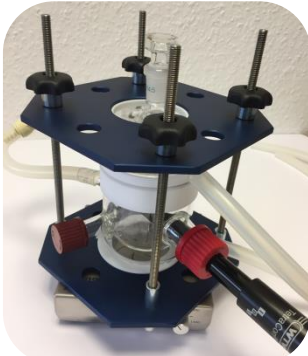
Fit the aluminium ring plate and tighten all 4 screws diagonally.



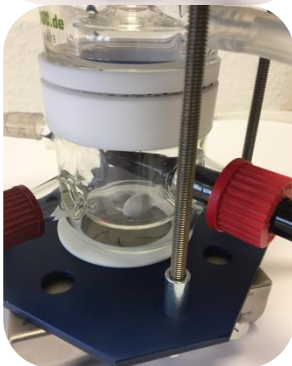
Pour the magnetic stirring rods into the test cell.



Place the assembled permeation cell on the magnetic stirring plate.



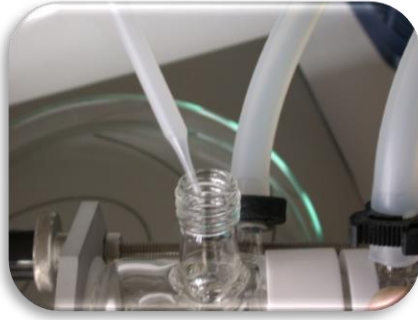
Insert the conductivity or pH sensor.



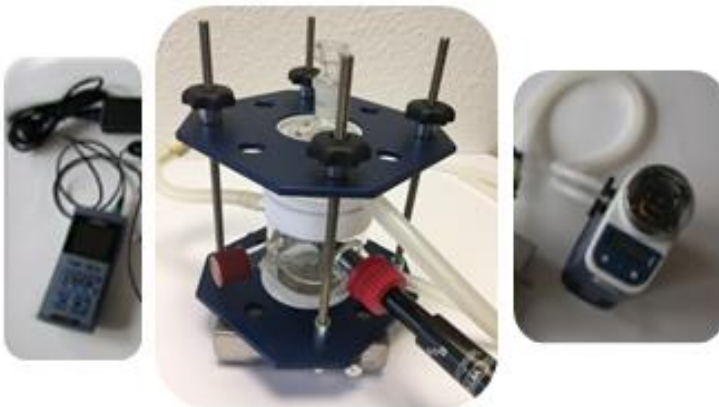
Connect inlet and outlet to Peltier thermostat.



Open the thermostat and fill it with water in portions until the air is removed from the hose system.



Collecting medium Deionised water via  
GL25 nozzle, bubble-free into the measuring cell.



Connect the Multimeter with the  
electrode and start up all the units  
and set the temperature to 23°C  
(±1°C).



Apply the test chemical to the material sample via the  
NS14 grinding and note the time (=start time!).

Hints:

The test chemical should be at 23°C (±1°C) before addition.  
The test chemical must completely wet the material sample.