

PAT-Core Components

MAY 2025

The PAT-Core is a modular and interchangeable system that meets the requirements of almost any test scenario. Its components are compatible with all PAT series test cells that utilize the standard PAT-Core design. Custom materials are available upon request.

Separators

FS-5P

220 µm

Double layered separator:
PP fibre + PE membrane

Whatman GF/A

260 µm

Borosilicate glass fibre

Polyolefine microporous membrane

25 µm

PP membrane

Customized

?

Provided by customer

Reference rings

Lithium



Aluminum



Activated Carbon



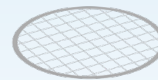
Magnesium



Sodium



Stainless steel (Mesh)



Other materials
available
on request

Reed contacts

Nickel



Gold



Insulation sleeves



PP

- Single-use
- Preassembled

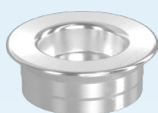


PEEK

- Reusable
- Heat resistant (up to 200 °C)
- For self-assembly

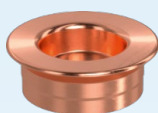
Current collectors: Plungers and discs

Aluminum



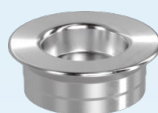
- Single-use
- Battery grade material (Al 99.5, EN-AW-1050)

Copper



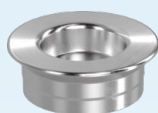
- Single-use
- Battery grade material (Cu 99.9, E-CU 58)

Stainless steel



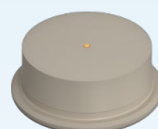
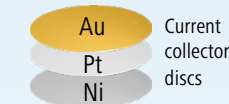
- Reusable
- Stainless steel (316L, 1.4404)

Nickel



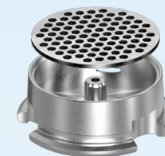
- Reusable
- Nickel (Ni > 99 %)

PEEK with gold pin



- Reusable
- Corrosion resistant

Stainless steel / Nickel



- With perforated plate for gas analysis



- With flow field for time resolved gas analysis