

PAT-Core Components

MARCH 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	Whatman GF/A	Polyolefine microporous membrane	Customized
220 μm	260 μm	25 μm	?
Double layered separator: PP fibre + PE membrane	Borosilicate glass fibre	PP membrane	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	PEEK
<ul style="list-style-type: none"> • Single-use • Preassembled 	<ul style="list-style-type: none"> • Reusable • Heat resistant (up to 200 °C) • For self-assembly

Current collectors: Plungers and discs

Aluminum	Copper	Stainless steel	Nickel	PEEK with gold pin	Stainless steel / Nickel
<ul style="list-style-type: none"> • Single-use • Battery grade material (Al 99.5, EN-AW-1050) 	<ul style="list-style-type: none"> • Single-use • Battery grade material (Cu 99.9, E-CU 58) 	<ul style="list-style-type: none"> • Reusable • Stainless steel (316L, 1.4404) 	<ul style="list-style-type: none"> • Reusable • Nickel (Ni > 99 %) 	<ul style="list-style-type: none"> • Reusable • Corrosion resistant 	<ul style="list-style-type: none"> • With perforated plate for gas analysis • With flow field for time resolved gas analysis

Current collector discs: Au, Pt, Ni