

PAT-Core Components

APRIL 2023

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

Freudenberg FS 3005-25	Whatman GF/A	FS-5P	Customized
25 μm	260 μm	220 μm	?
PET fibre, Al_2O_3	Borosilicate glass fibre	Double layered separator: PP fibre + PE membrane	Provided by customer

Reference rings

Lithium	Aluminum	Activated Carbon	Magnesium	Sodium	Other materials available on request

Reed contacts

Nickel	Gold	Stainless steel
		with finger-shaped reference electrode (partly coated with polyimide)

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