

PAJARITO POWDER

Catalysts for PEM Water Electrolysis



Pajarito Powder develops and manufactures catalysts for PEM water electrolysis. Materials include PGM catalysts for OER and Pt/Pt alloy catalysts on Pajarito Powder's proprietary Engineered Catalyst Support (ECS), as well as High Surface Area Platinum Black for HER. Development efforts on PEM catalysts focus on increasing performance and decreasing PGM requirements.

Anode (OER) Materials

Pajarito Powder Engineered Electrolyzer Catalysts™ (EEC) for PEM anode applications include a range of iridium oxide products that more effectively utilize iridium.

Mat'l	Product	Surface Area (BET)	TRL
PGM	IrO _x	170 m ² /g (± 20 m ² /g)	5
PGM	IrRuO _x	170 m ² /g (± 20 m ² /g)	4
PGM	IrO _x /NbO _x	120 m ² /g (± 30 m ² /g)	3
PGM	IrRuO _x /NbO _x	120 m ² /g (± 30 m ² /g)	3

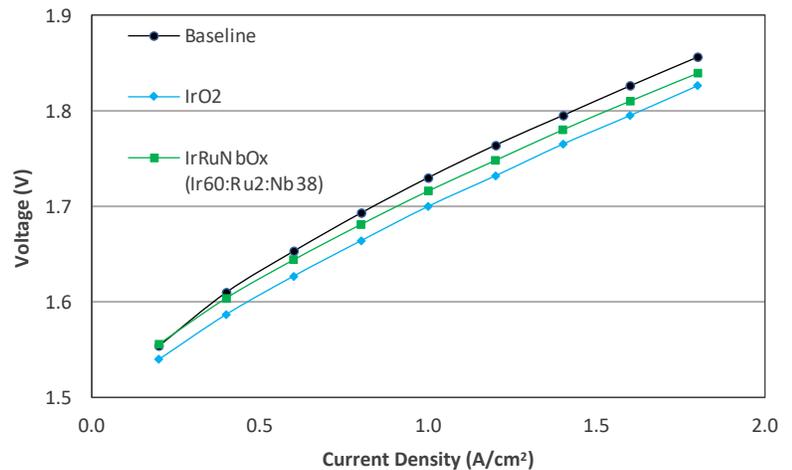
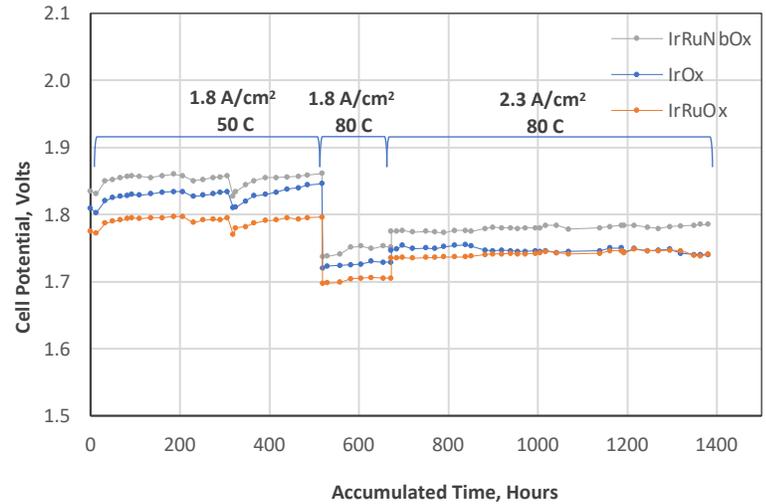
Cathode (HER) Materials

Pajarito Powder offers a range of PEM (cathode) materials, based on PGMs deposited onto our proprietary Engineered Catalyst Support™ (ECS), yielding high efficiencies and greater durabilities.

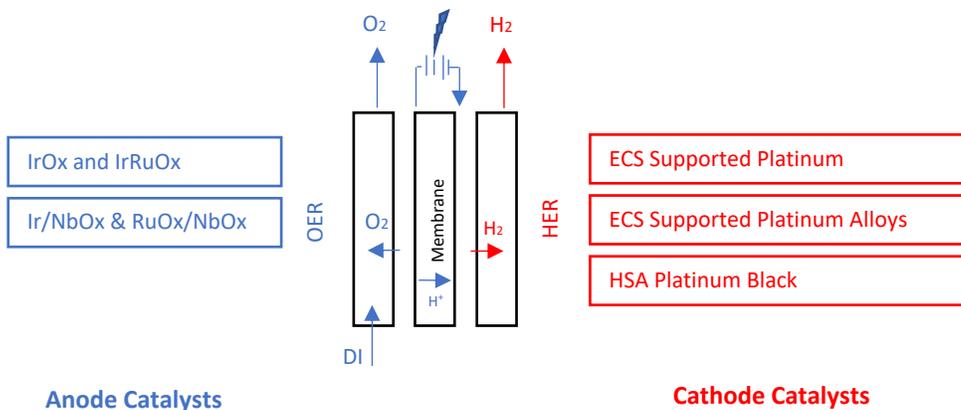
Category	Product	Surface Area	TRL
PGM/ECS	Pt/ECS	200-550 m ² /g varies by ECS	6
PGM/ECS	Pt alloy/ECS	200-500 m ² /g varies by ECS	5
PGM	HSA Pt Black	50 m ² /g (± 5 m ² /g)	6

Please see "Engineered Catalyst Supports™ (ECS) for more information about Pajarito Powder's proprietary carbon supports.

Continuous Operation at Elevated Temperature and Current Density



Pajarito Powder OER and HER PEM Materials



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