

PAJARITO POWDER

Catalysts for AEM/Alkaline Water Electrolysis

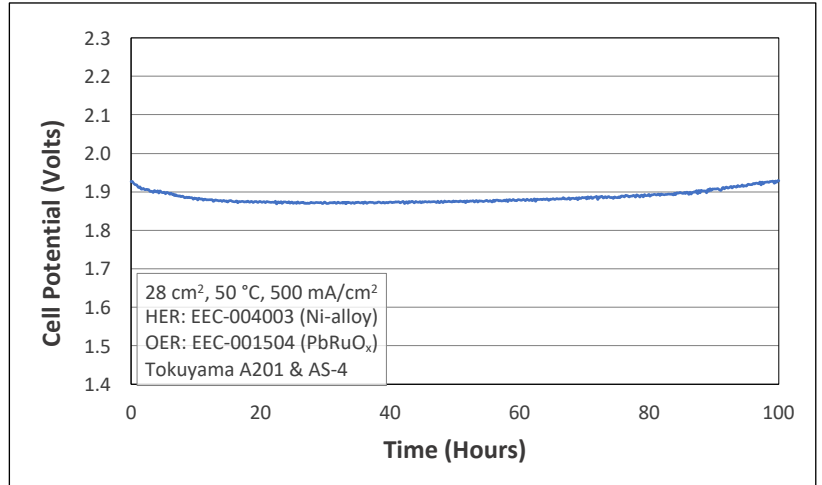


Pajarito Powder develops and manufactures catalysts for AEM and Alkaline water electrolysis. Materials include precious metal, low precious-metal, as well as PGM/Carbon-free catalysts for OER, and both PGM and PGM-free catalysts for HER.

Anode (OER) Materials

Pajarito Powder Engineered Electrolyzer Catalysts™ (EEC) for OER applications include both PGM, PGM-lite and PGM-free materials:

Category	Product	Surface Area (BET)	TRL
PGM-lite	PbRuO _x	90 m ² /g (± 20 m ² /g)	4
PGM-free	NiFeO _x	20 m ² /g (± 5 m ² /g)	2
PGM-free	LaSrCoO _x	20 m ² /g (± 5 m ² /g)	3
PGM/C-free	IrO _x /NbO _x	130 m ² /g (± 20 m ² /g)	3

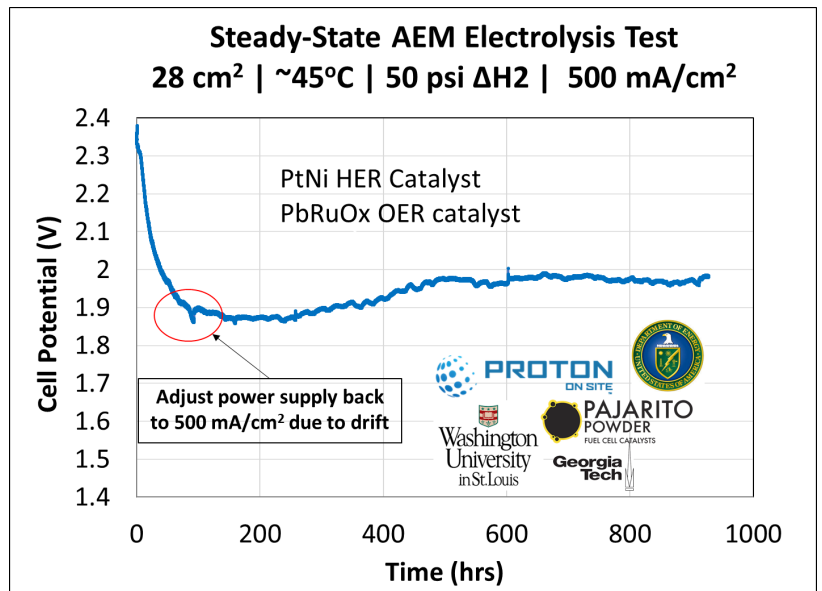


Cathode (HER) Materials

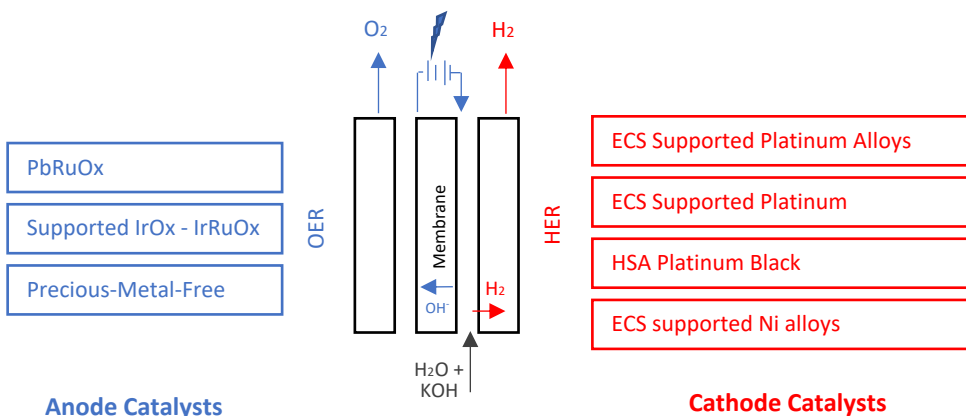
Pajarito Powder Engineered Catalyst Supports™ (ECS) improve PGM catalyst durability and performance of the PGM. Nickel-Molybdenum alloys on ECS provide a PGM-free alternative.

Category	Product	Surface Area	TRL
PGM/ECS	Pt/ECS	200-550 m ² /g varies by ECS	5
PGM/ECS	Pt alloy/ECS	200-500 m ² /g varies by ECS	4
PGM	Pt Black	50 m ² /g (± 5 m ²)	6
PGM-free	NiMo/ECS	500 m ² /g (± 20 m ²)	4

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



Pajarito Powder OER and HER AEM Materials



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