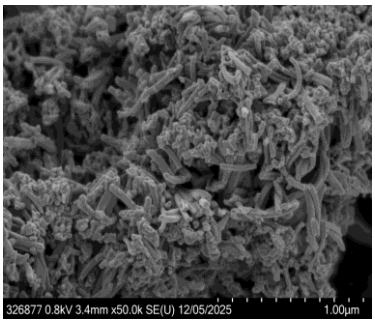
December 2025

3M™ Nanostructured Iridium Catalyst Powder E570

Technical Data Sheet

General Description





3M™ Nanostructured Iridium Catalyst Powder E570 is composed of organic whiskers coated with iridium metal. It has high mass activity in polymer electrolyte membrane water electrolysis. Engineered to be compatible with high levels of both alcohols and water, 3M™ Nanostructured Iridium Catalyst Powder E570 supports varying substrate options to best fit customers' preferred coating processes*. Anodes made with 3M™ Nanostructured Iridium Catalyst Powder E570 achieve high thickness at low loadings (mg Ir/cm2) *. This product is durable under both cyclic and steady state conditions.

**According to 3M test procedures*

Product Features

- High mass activity for high efficiency
- High catalyst utilization in electrodes
- High catalyst stability
- Long demonstrated lifetime

Physical Properties

Property	Value	Test Method
Metal content	78 wt.% +/- 5 wt. %	3M test method, TGA in reducing atmosphere
Water content	<2 wt. %	3M test method, TGA at 100°C
Visual Aspect	Black powder	Visual
Package quantity	Up to 30 grams	

Shelf Life & Storage

This product is supplied in solid form and is packaged in (glass) containers. Catalyst is available in quantities up to 30 grams per container. It is recommended to store the product at room temperature away from sources of heat.

Environmental, Health, & Safety Information

Before using this product, thoroughly review the product label and current product safety data sheet (SDS). For additional health and safety information, please visit www.3m.com/SDS or call 1-800-364-3577 or (651) 737-6501.

Contact Information

The information provided in this technical document is intended as a guide for this product. For more information or help in selecting a 3M product for an application, please contact your 3M application engineering representative or connect with a 3M expert.

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