Overview

Improved efficiency of the fuel cell stack starts with the individual plate. POCO’s graphites are high-strength, fine-grained, isotropic materials with consistent microstructure. These graphites are highly conductive materials. High conductivity and consistency of the microstructure provide efficient passage of gases across the entire surface of the plate.

Graphite Materials

POCO produces a variety of graphite materials that can be used for bipolar plates. The most popular material is PyroCell™, a non-porous graphite that does not allow leaking of the cell stack. PyroCell plates are produced by subjecting machined plates to a proprietary carbon treatment that completely seals the surface. For maximum output, start with the material that offers maximum efficiency.

Precision Machining Services

The high strength and small, uniform microstructure of POCO’s graphite makes it possible to machine intricate patterns/channels into the plate to meet the fuel cell design engineer’s requirements for flow field efficiency.

For More Information

Please call your Regional Customer Service Center today to learn what POCO can do for you. Visit www.poco.com and select the Contact Us link for the center nearest you.

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