Product Information

Abstract

PFAS-free, high-strength PEEK meshes designed for PEM and AEM hydrogen electrolyzers, combining dimensional precision, mechanical stability, and chemical resistance to support thinner, more efficient membranes.

Product Description

SAATIenergy PEEK Mesh is a high-performance woven fabric made from precision monofilaments of Polyether Ether Ketone (PEEK). Specifically engineered for Proton Exchange Membrane (PEM) and Anion Exchange Membrane (AEM) electrolyzers, these meshes serve as mechanical reinforcement within ion exchange membranes. SAATI's weaving technology ensures accurate mesh openings, surface planarity, and high mechanical stability, enabling uniform thickness and optimized transport properties. The fabrics exhibit exceptional chemical resistance and thermal stability, making them ideal for harsh electrolysis environments. Available in multiple thicknesses (down to 50µm), SAATIenergy PEEK Mesh supports the industry's push toward thinner membranes and improved hydrogen generation efficiency.