ABSTRACT

Gas Diffusion Electrode and Process for Production Thereof

The present invention relates to a gas diffusion electrode that includes an electrically conductive carrier, and a porous coating based on an electrochemically active catalyst and a hydrophobic material, wherein the electrode has a first side facing an oxygen-containing gas and a second side facing an alkaline electrolyte, wherein the catalyst comprises a noble metal as a catalytically active component, wherein the hydrophobic material comprises a hydrophobic polymer, and wherein the coating comprising the catalyst has a pore volume from 10 to 500 mm^3/g, and a pore diameter in the range from 100 to 10,000 nm.

Figure : None