



spgprints®

Clean Energy

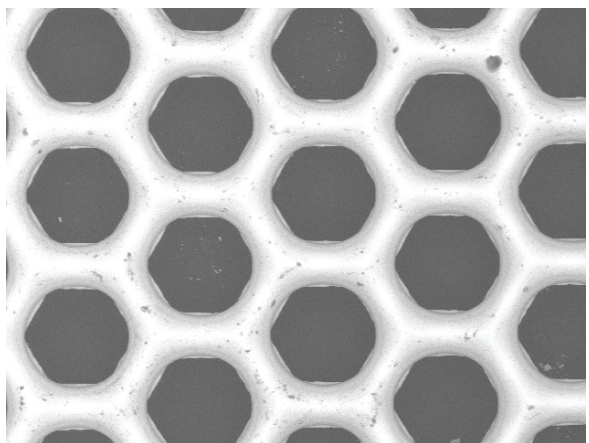
Mass-produced Nickel Electrode for Hydrogen Evolution

Printing tomorrow.

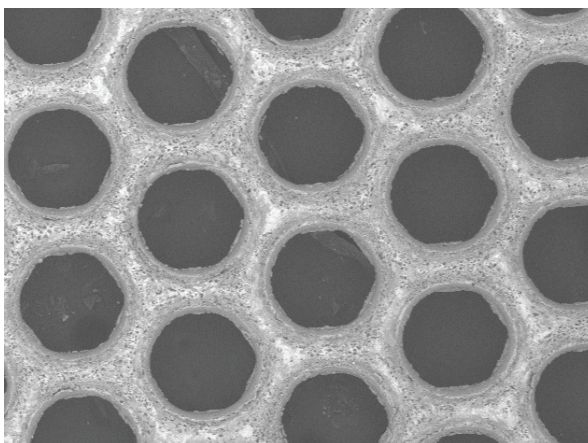


Mass-produced Nickel Electrode for Hydrogen Evolution

SPGPrints is a producer of Nickel screens for the printing & tooling industry. The nickel screens that are produced have a high open area and high surface area. This makes the screens very suitable as electrodes in the alkaline hydrogen production. The screens are mass produced in the Netherlands on a continuous roll out of pure electroformed nickel. As the nickel is pure, the electrodes are fully recyclable. The screens will be delivered in flat sheets, made to size.



2023/03/31 10:23 L D4.9 x250 300 um



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With a surface treatment, the effective surface area can be increased and / or catalysed

Properties

Type	Holes/cm ²	Hole diameter (μm)	Open area (%)	Thickness (μm)	Dimensions w x l (m)
125W	2422	135	44	120	1.3 * 100

Efficiency curve

Tests show that 125W beats woven mesh at high current densities.

