

LINQCELL GDL1000

Graphitized Carbon Paper



- 1.00 mm – 1000 μ m – 39 mil
- High electrical conductivity and tunable compressibility
- Porous transport and gas diffusion layers for water electrolyzers and fuel cells

LINQCELL GDL1000 is a 1.00-mm thick graphitized carbon fiber paper made from high-quality polyacrylonitrile (PAN) fibers. These fibers undergo a wet-laying paper process using a specially formulated carbonizable resin, resulting in a non-woven, fibrous, and porous structure, which is then carbonized and graphitized for enhanced performance. **GDL1000** exhibits high electrical conductivity due to high-temperature treatment above 1000 °C, good oxidation resistance, and excellent thermal stability. These characteristics make **LINQCELL GDL1000** highly recommended for use as cathode porous transport layers in PEM and/or AEM water electrolyzers, as well as gas diffusion layers in fuel cells.

LINQCELL GDL1000 is graphitized at 1600 °C but can also be produced at a higher graphitization temperature (2000 °C) to meet high-performance device requirements. Higher graphitization results in better electrical performance while significantly increasing the material cost. It is mainly recommended when resistivity is of utmost importance.

Specifications

Property	Value	Unit
Thickness	1	mm
Nominal Basis Weight	580	g/m ²
Through-plane Resistance	11.11	m Ω · cm ²
Through-plane Resistivity	109.86	m Ω · cm
Voltage Loss at 500 mA/cm ² and 20 N/cm ²	25.20	mV

Storage and Handling

1. Shelf life is more than 2 years if stored in a dry and cool, well ventilated place at room temperature.
2. Do not leave exposed to moisture and sunlight for long periods of time.
3. Do not throw the plate or put heavy pressure on it and the box to avoid breakage.
4. Do not apply uneven pressure on the sheet.

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