chanhvinh.com

# LINQCELL **GFP**

## Graphite Felt Series

- Available in different thicknesses
- High chemical resistance, electrical conductivity, and open porosity
- Electrode materials for high-temperature redox flow batteries

**LINQCELL GFP graphite felt series** is made from high-quality polyacrylonitrile (PAN) fibers. These fibers are processed into a non-woven structure, which is then carbonized and graphitized. The result is a material with exceptional properties: it exhibits high electrical conductivity due to high-temperature treatment above 1000 °C, superior oxidation resistance, and excellent thermal stability. The non-woven structure of **LINQCELL GFP** provides flexibility and resilience, making it adaptable to various applications.

These characteristics make **LINQCELL GFP graphite felts** highly recommended for use as electrodes in redox flow batteries, sodium-nickel chloride (NaNiCl) batteries, electro-synthesis, and sediment microbial fuel cells. **LINQCELL GFP graphite felts'** high open porosity, achieved without the use of resins, facilitates effective charge transfer between the electrolyte and the bipolar plate, particularly in redox flow battery stacks.

**LINQCELL GFP** is available in three standard thicknesses—2 mm (GFP2000), 3 mm (GFP3000), and 6.5 mm (GFP6500)—and can also be custom-fabricated to meet specific requirements.

### Specifications

| Property | Unit | GFP2000 | GFP3000 | GFP6500 |
|---|---|---|---|---|
| **Felt Type** | – | PAN Graphite | | |
| **Thickness** | mm | 2 | 3 | 6.5 |
| **Basis Weight** | $g/m^2$ | – | – | 550±100 |
| **Voltage Loss at 500 $mA/cm^2$ and 20 $N/cm^2$** | mV | <35 | <35 | – |
| **Roll Width** | cm | >40 | >40 | >90 |

### 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.

**Europe**
Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

**Canada**
80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com

**North America**
36927 Schoolcraft Rd
Livonia, MI 48150
United States
Phone: +1 (313) 558-8243
Email: info@caplinq.com

**South East Asia**
S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60 (12 )4302223
Email: info@caplinq.com