

GFE-1 – Graphite Felt Electrode PAN Graphite Felt

- GFE-1 is an ultra-high quality PAN-based graphite felt with specialized fibers and weave that has been treated to achieve high liquid wetting and absorption.
- This material was specially developed for the demanding needs of flow battery applications. Our proprietary activation process increases active sites and surface area to over 1000+ M²/g.
- The felt weave results in a smoother surface and a more homogeneous structure for more stable and consistent electrical performance.
- GFE-1 is currently a custom run product and can be optimized for the application.



Application

- Redox Flow Battery (RFB) Electrodes
- Fuel Cells
- Hybrid Flow Battery Electrodes
- Sensors

Physical properties

Typical Value		GFE-1	
Technical data	Unit	Index	Note
Thickness	mm	1-15	Made to Order
Thickness Tolerance	mm	±0.35	MAX
Width	m	1.25-1.6	Made to Order
Length	m	60-120	Made to Order
Density	g/cc	0.09-0.15	+/- 0.005
Electrical Resistance	Ω-cm	0.275	MAX
Carbon Content	%	99.8	MIN
Vanadium Liquid (2 mol/L) Adsorption	g/g	17	MIN
Dropping Crumbs	%	0.168	MAX

Warranty:

The data provided relates only to the product noted above. The information is correct to the best of our knowledge, CeraMaterials does not guarantee any properties. Because conditions and methods of use of our products are beyond our control, this information should not be used as a substitution for users own tests to ensure that CeraMaterials products are safe, effective, and fully satisfactory for the intended end use. CeraMaterials' sole warranty is that the product will meet sales specifications in effect at the time of shipment.

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