

High Purity 99.99 Percent Graphite Sheet For Battery Electrodes With Customizable Dimensions

Item Number: CL30



Introduction

Engineered for advanced energy storage and electrochemical research, our 99.99% high-purity graphite sheet provides superior electrical conductivity, exceptional thermal stability, and customizable dimensions to optimize battery electrode performance and precision laboratory cell prototyping.

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Application	Description	Key Benefit
Battery Electrode Substrates	Serves as a high-conductivity current collector or conductive backing plate in pouch cells, test fixtures, and custom battery configurations.	Minimizes internal cell resistance and eliminates parasitic chemical contamination.
Solid-State Battery R&D	Used as rigid conductive backing plates in specialized high-pressure solid-state electrolyte testing cells and pressing dies.	Withstands mechanical compression while maintaining continuous planar electrical contact.
Supercapacitor Current Collectors	Acts as an inert, high-surface-quality conducting base plate for activated carbon and pseudocapacitive electrode slurries.	Facilitates ultra-fast charge transfer kinetics and maximizes cycle-life stability.
Electrochemical Corrosion Cells	Applied as an inert auxiliary or counter electrode in standard three-electrode analytical setups and flow cells.	Resists aggressive electrolyte oxidation and provides stable reference conditions.
Fuel Cell Bipolar Component Prototyping	Provides conductive, gas-impermeable plate stock for machining micro-flow channels in proton-exchange membrane (PEM) and direct methanol fuel cells.	Combines high in-plane electrical conductivity with reliable acid corrosion resistance.
High-Temperature Thermal Management	Deployed as thermal spreaders and heat sink pads in vacuum furnaces, semiconductor test fixtures, and high-flux electronic modules.	Rapidly dissipates concentrated thermal loads without dimensional warping or mechanical fatigue.
Electrolytic Synthesis & Recovery	Utilized as non-consumable conductive plates for metal electrodeposition, wastewater electro-oxidation, and chemical electrosynthesis.	Extends operational lifetime under continuous high current density and harsh pH regimes.
Precision Sintering & Metallurgy Fixtures	Serves as non-reactive, heat-resistant support trays and spacers during vacuum sintering of advanced ceramics and metal powders.	Prevents molten alloy or ceramic adhesion at extreme processing temperatures.

Specification Parameter	CL30 Baseline Configuration	Available Dimensional Variants
Material Purity	99.99% Carbon (C)	99.99% Carbon (C) across all sizes
Standard Packaging	5 pcs / bag	5 pcs / bag (protective sealed packaging)
Base Model Dimensions (L x W x T)	100 x 50 x 2 mm	Full catalog matrix detailed below
100 mm Series (50 mm Width)	100 x 50 x 2 mm	100 x 50 x 3 mm, 100 x 50 x 5 mm, 100 x 50 x 10 mm
100 mm Series (100 mm Width - Thin)	100 x 100 x 1 mm	100 x 100 x 2 mm, 100 x 100 x 3 mm, 100 x 100 x 4 mm, 100 x 100 x 5 mm
100 mm Series (100 mm Width - Mid)	100 x 100 x 6 mm	100 x 100 x 8 mm, 100 x 100 x 10 mm, 100 x 100 x 15 mm, 100 x 100 x 20 mm
100 mm Series (100 mm Width - Thick)	100 x 100 x 25 mm	100 x 100 x 30 mm, 100 x 100 x 35 mm, 100 x 100 x 40 mm, 100 x 100 x 45 mm, 100 x 100 x 50 mm
200 mm Series (100 mm Width)	200 x 100 x 5 mm	200 x 100 x 10 mm

Specification Parameter	CL30 Baseline Configuration	Available Dimensional Variants
200 mm Series (150 mm Width)	200 × 150 × 3 mm	200 × 150 × 5 mm, 200 × 150 × 10 mm
250 mm Series (200 mm Width)	250 × 200 × 10 mm	Fully custom length/width cuts available upon request
300 mm Series (200 mm Width - Thin)	300 × 200 × 2 mm	300 × 200 × 3 mm, 300 × 200 × 4 mm, 300 × 200 × 5 mm, 300 × 200 × 6 mm
300 mm Series (200 mm Width - Mid)	300 × 200 × 8 mm	300 × 200 × 10 mm, 300 × 200 × 15 mm, 300 × 200 × 20 mm
300 mm Series (200 mm Width - Heavy)	300 × 200 × 30 mm	300 × 200 × 40 mm
400 mm Series (200 & 400 mm Width)	400 × 200 × 10 mm	400 × 400 × 5 mm, 400 × 400 × 10 mm
Customization Capability	Standard rectangular sheet	Custom thickness slicing, CNC profile routing, hole drilling, and surface lapping