

PowerLock®

PowerLock® pasting paper is a multifunctional material designed and manufactured to lock in the power of active mass electrodes. The PowerLock® pasting paper provides outstanding processability and helps to extend thin plate pure lead (TPPL) battery life.

Advantages of the PowerLock® Pasting Paper

Impressive processability: Our durable, single-layer PowerLock® pasting paper enhances positive active mass processability.

Prevents active mass bleeding: PowerLock® pasting paper hinders active mass bleeding throughout the pasting process

Lower lead dusting: PowerLock® pasting paper reduces lead dusting during plate handling.

Retains positive active mass: PowerLock® retains positive active mass. The soluble fibers dissolve, and the synthetic and glass remain.

High porosity: The high porosity of PowerLock® lowers electrical resistance.

Flash dry by-pass: Our PowerLock® pasting papers allows for flash dry by-pass.

Why Use PowerLock®

The product design of PowerLock® features micro glass, synthetic fibers as well as natural fibers which can be dissolved in acid. Its composition offers a unique set of properties that enables it to be used as an alternative to scrim, glass mat, or cellulose pasting paper in battery assemblies. This product also offers better battery performance and easier use requirements compared to alternative options.

Prior to battery formation, PowerLock® pasting paper's fiber mix effectively prevents paste mass bleeding and lead dusting through its low air permeability.

After the formation, the natural fibers dissolve and leave behind the micro glass as well as synthetic fibers. This creates a durable open structure material layer featuring reduced electrical resistance. These properties make PowerLock® pasting paper ideal for various applications, including TPPL batteries.



PowerLock® Pasting Paper Specifications

GRAMMAGE	(g/m ²)	28
THICKNESS (10 KPA)	(mm)	0.16
DENSITY	(g/m ² . mm ⁻¹)	175
TENSILE STRENGTH - MD	(kN/m)	0.8
TENSILE STRENGTH - CD	(kN/m)	0.3
ELONGATION - MD	(%)	2.5
ELONGATION - CD	(%)	3.5
MOISTURE CONTENT	(%)	2.5
IGNITION LOSS	(%)	79
PERMEABILITY	125pa	30

PowerLock® Pasting Paper from Hollingsworth & Vose

PowerLock® pasting paper is one of our most notable innovations and products transforming the world of battery applications. At Hollingsworth & Vose, we design and manufacture top-of-the-line battery components engineered to optimize battery assembly and performance. Our products are available in variations to meet our clients' varying unique needs. For more information about our PowerLock® pasting paper, visit our [website](#) or [contact us](#) today.

About H&V

Hollingsworth & Vose is the global automotive AGM market leader with local support and regional manufacturing. We are the only vertically integrated, international, AGM producer in the lead battery industry. For over three decades, we have been a trusted partner and solution provider that is dedicated to innovation and collaboration with our customers. We have a broad product line with specialized application support and electrochemical level testing in our state-of-the-art battery testing lab.

Contact H&V to Learn More

Our PowerLock® pasting paper is a multifunctional material engineered to lock in the power of active mass electrodes. It offers excellent processability and extends thin plate pure lead (TPPL) battery life. [Contact us](#) today to learn more.