

Magnera Pasting Solutions – old strength, new paths

Fenibat, May 2025

Glatfelter now belongs to Magnera

By the numbers



Customers

1000+



Technologies

25+

9000+



Employees

1000+



Active Patents



FY2023 Revenue

\$3.7B

46



Locations



We are a **global leader in nonwovens**, with a broad platform of solutions for the **specialty materials industry** and an **expanded footprint across North America, South America, Europe and Asia.**



Our footprint

The scale to serve you better

NORTH AMERICA

- Gatineau, Canada
- North Bay, Canada
- Asheville, USA
- Augusta, KY USA
- Benson, NC USA
- Fort Smith, USA
- Madison, USA
- McAlester, OK USA
- Mooresville, NC USA
- Mount Holly, USA
- Nashville, TN USA
- Old Hickory, TN USA
- Statesville, NC USA
- Washington, GA USA
- Waynesboro, VA USA

LATIN AMERICA

- Atlacomulco, Mexico
- Pilar, Argentina
- Jundiaí, Brazil
- Pouso Alegre, Brazil
- São José Dos Pinhais, Brazil
- Cali, Colombia
- San Luis Potosí, Mexico

EMEIA

- | | | |
|-------------------------|------------------------|--------------------------|
| • Bailleul, France | • Dombühl, Germany | • Cuijk, The Netherlands |
| • Biesheim, France | • Dresden, Germany | • Asturias, Spain |
| • Neuville, France | • Falkenhagen, Germany | • Tarragona, Spain |
| • Scaër, France | • Steinfurt, Germany | • Aberdare, UK |
| • Soultz, France | • Gernsbach, Germany | • Caerphilly, UK |
| • Aschersleben, Germany | • Steinfurt, Germany | • Lydney, UK |
| • Berlin, Germany | • Terno, Italy | • Maldon, UK |

ASIA

- Nanhai, China
- Suzhou, China
- Newtech, Philippines

Pasting paper production

Pasting paper production

- All pasting papers are produced at Glatfelter Gernsbach GmbH in Germany
- Pasting Papers from Gernsbach are IATF certified
- Our focus is on high and constant product quality

Pasting paper production

Important for good pasting paper:

- Selection of the proper raw material
 - Low impurity level
 - Softwood fibers
 - Specific synthetic fibers for NG grades
 - No binders
 - Good runnability and no impact on self-discharge
- Paper machine design
 - Inclined wire machine for homogeneous fiber distribution
 - Through Air Drying for high air permeability
 - Perfect adhesion of the paper to the paste/plate in wet and dry condition

Unique Raw Material for electrical applications



E-Pulp
Cellulose

Man-made fibers
Special Synthetic Fibers



Bales



Fiber Mixtures



Inclined Wire
Technology and
Through Air Drying



DYNAGRID®
Composite web



Advantage of a good pasting paper

Runability

- Higher machine speed
- No peeling in the flash oven
- Best adhesion of the paper to the plate during assembling

Energy

- Lower energy consumption due to high air permeability

Safety

- Less lead emission during the production

DYNAGRID® Product Range:

Dynagrid®

Standard Pasting Paper:

- fundamental to smooth and trouble-free production
- 100 % Cellulose

Magneras unique capability delivers pasting paper with:

- High air permeability: Excellent adhesion of paper to paste
- Homogenous Formation: No bleed-through of paste.
- Efficient transport of moisture through paper

Dynagrid® NG

Improved Battery Performance:

- For Start-Stop batteries
- For hot climate
- For poor road conditions

DYNAGRID® - Facts Sheet

- Magnera produced > 6.600 tons of pasting paper in 2024
- Magnera has around 100 active battery customers
- Magnera is the biggest pasting paper and pasting web producer
- Glatfelter is IATF certified for its pasting paper production in Gernsbach



Composite Scrim:

Improving Battery Performance through
Dynagrid® 328/NG and Dynagrid®
324/NG

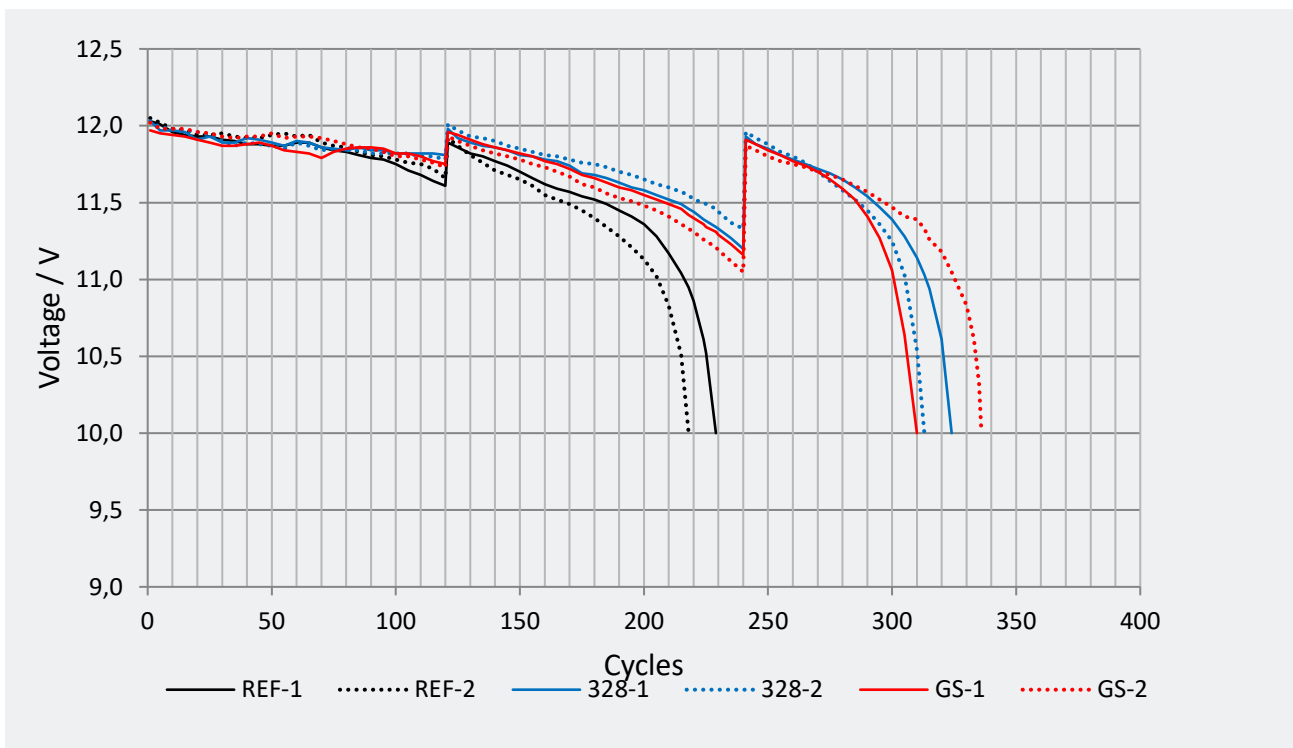
DYNAGRID® NG

Extending battery life

What it is	How it works	Benefits
» Cellulose fibers	» Cellulose dissolves » Synthetic veil remains on plate surface	» Less shedding during cycling » Protection against vibration and shock
		
» Acid resistant fibers	» Dynagrid® NG Protects integrity of active mass	» Longer Battery Life

Results from IEES in Sophia

Cycle-life of 12 V batteries with similar and standard paste



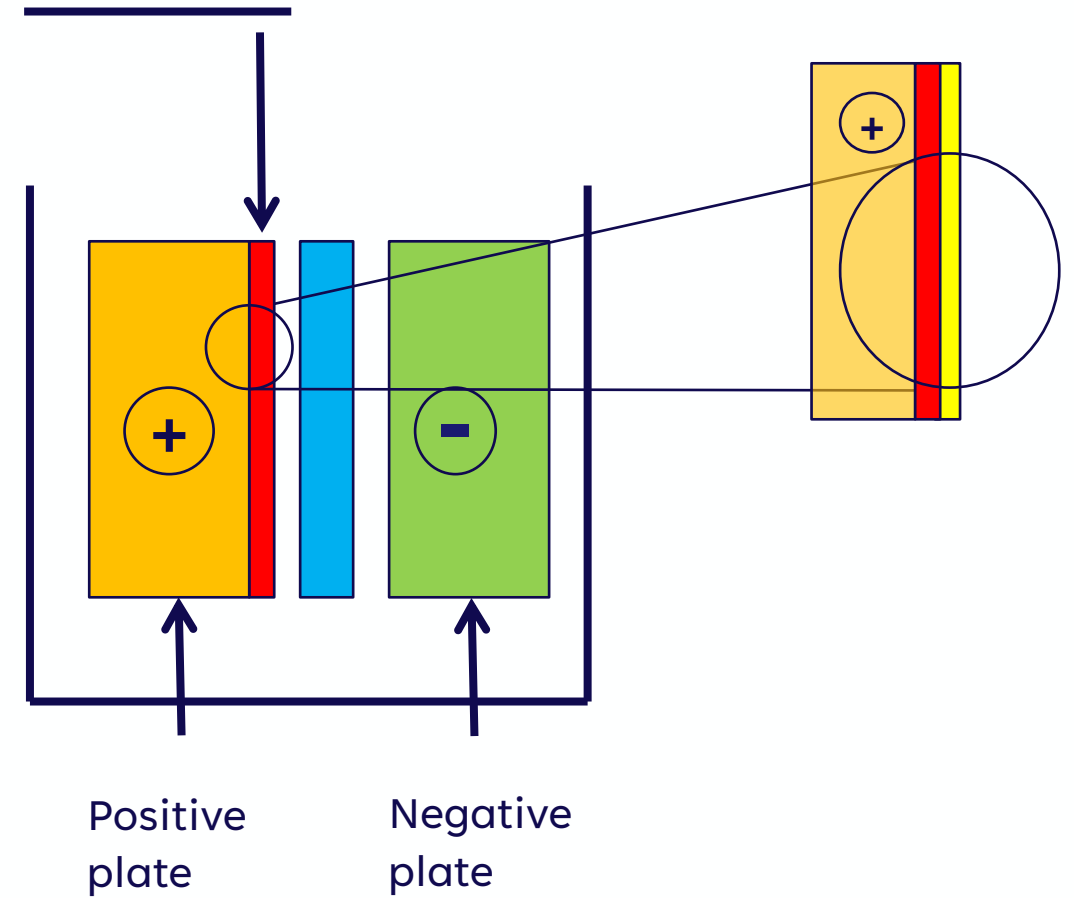
	REF		NG 328		GS	
	1	2	1	2	1	2
N(max)	229	218	324	313	310	336
N(ave)	224		319		323	
%	--		42 %		44 %	

IEES Study of Cycle Lifetime Extension of SLI Batteries

Dynagrid® NG - Basic Principle during Battery Operation

Cellulosic layer dissolves during battery operation

Synthetic layer remains in position on plate surface reinforcing the PAM



INNOVATION:

Light weight positive plate

A new approach to save lead with
Dynagrid NG

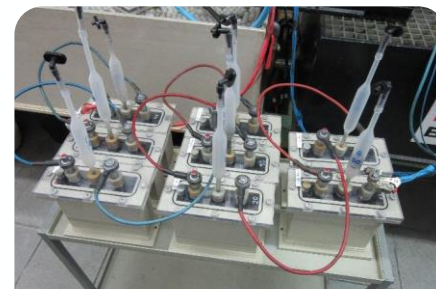
The Proof of Concept Study

Experimental Procedure

Together with the German battery producer MOLL we have shown, that it is feasible to save lead when using the Dynagrid NG

Various test cells were built to compare the standard design with the light weight design

=> Tear down has shown that plates using the Dynagrid NG were in much better condition after the cycling



Formation & Cycling

Together, we can make possibilities real.

**For more details,
please join us at
Booth J01**



Magna

Possibilities
Made Real