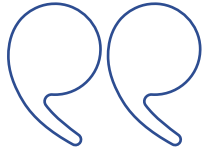




**YOUR FLEXIBLE PARTNER  
IN BATTERY INDUSTRY,  
OFFERING CUSTOMIZED  
SOLUTIONS FOR SEPARATORS  
AND GAUNTLETS**



WE ARE YOUR **COMMITTED TO SUPPORT**  
THE LATEST TRENDS IN **ENERGY STORAGE**  
AND PROVIDE OUR WORLDWIDE CUSTOMERS  
WITH **CUTTING-EDGE SEPARATOR**  
AND **GAUNTLET SOLUTIONS.**

OUR KEY TO MAINTAINING OUR MARKET  
LEADERSHIP IS TO **EMBRACE CHANGE**  
WHILE **REMAINING TRUE TO OUR TRADITIONS.**



## WHO WE ARE...

At AMER-SIL we believe we can make a significant contribution to ensuring a green future for generations to come through energy storage applications, which actually represent one of the biggest challenges facing humankind. Being an independent company gives us the freedom to set ambitious medium- and long-term goals. The competitive environment which now prevails in the battery sector makes it even more crucial to be able to adapt and change quickly. With its high-powered R&D and its flexible production capabilities, AMER-SIL can offer you tailor-made solutions to meet your challenges.



## OUR CORE BUSINESS

AMER-SIL has been designing and producing high-performance micro-porous polymer/silica separators for all types of industrial lead acid batteries for 50 years now, and we are the market leader in various segments.

In 1989, AMER-SIL introduced non-woven gauntlets for tubular positive plates and the market has since adopted this advanced technology. The joint venture which came into being between AMER-SIL and the Indian gauntlet producer KE-TEX in 2015 established AMER-SIL as the global leader for both non-woven and woven gauntlets. In 2018/2019, the company also launched micro-porous separators for redox flow batteries. Today, Amer-Sil is the only global supplier offering a combined portfolio of separators and gauntlets for industrial batteries.



## CORE BENEFITS



### PRODUCT CUSTOMIZATION

We meet individual customer needs with tailor-made products from our state-of-the-art production facilities



### INNOVATION

We provide our customers with cutting-edge technology in the energy storage sector and develop the latest solutions for and with our customers through close collaboration with reputed research institutes.



### COMPETITIVE COSTS

The very high porosity and extremely low electrical resistance of the separators help our customers to deliver more ampere hours at the same cost.



### LARGE CHOICE

Our separators are available with tailored thicknesses from less than 1mm up to 5mm and volume porosity ranging from 68% to almost 90%. Our woven & non-woven gauntlets are available in many diameters, fabrics and shapes, making our portfolio one of the broadest on the market



### FLEXIBILITY

We offer our clients a large portfolio and a broad choice of materials for industrial battery separators and gauntlets. Our clients can order the volumes they need, and we ensure swift delivery covering the shortest possible distances.



### WORLDWIDE PRESENCE

Our offices and production sites all over the world keep us in close touch with our customers and allow us to serve them at local level.



### COMBINED PORTFOLIO

We are the only global supplier proposing BOTH, separators AND gauntlets, offering a unique portfolio for industrial batteries. Our customers benefit from a single point of contact, time-saving and lower costs.



## PRODUCTS

Amer-Sil has been developing cutting-edge products for industrial batteries for over 50 years. We are the only global supplier proposing BOTH, **separators** AND **gauntlets**, offering a unique portfolio for the increasing demand of lead-acid batteries. We provide a broad choice of products meeting all needs of our customers.

For renewable energy storage applications using Redox Flow Batteries, Amer-Sil offers small pore **separators** which can be successfully adopted in various types – vanadium, zinc bromine, all-iron.



### *Industrial Lead Acid Batteries* **GAUNTLETS**

Amer-Sil gauntlets for tubular plates are suitable for use in any industrial application: in traction and stationary batteries, in flooded batteries and in gel.

Amer-Sil and its joint venture Amer-Sil Ketex India are by far the largest suppliers of gauntlets worldwide.



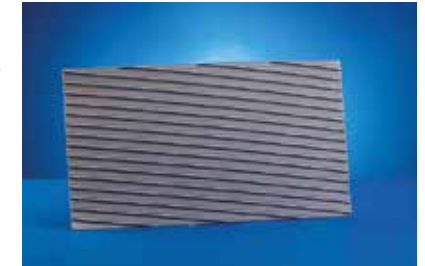
**DID YOU  
KNOW?**

- We offer customized solutions for all our products including RFB
- We are the only supplier worldwide of PVC-silica separators
- We collaborate with innovative companies, start-ups and research centres as part of "Flow-Camp"



### *Industrial Lead Acid Batteries* **SEPARATORS**

For more than 50 years now, we have been offering different separator solutions to match any industrial battery application. Our separators are suitable for both tubular and flat plate technologies. They are obtained via the extrusion and calendaring of PVC-silica compound. No mineral oil is used in the extrusion process.



We are able to draw on several decades of successful collaboration with most of the top-quality battery makers around the world.



### *RFB Batteries in Energy Storage Systems* **SEPARATORS**

In redox flow batteries (RFB), our PVC-silica microporous separators represent a unique alternative to most commonly chosen ion-exchange membranes (IEM).

The separator has been optimized for low electric resistivity and minimal electrolyte crossflow by tuning the pore structure of the membrane.

Amer-Sil believes that microporous separators can play a crucial role in lowering the overall costs of RFB systems without compromising their performance, thus making this technology more competitive and accelerating its growth.



# WE ARE HERE FOR YOU

A 50-YEARS PLAYER WITH SEVEN FACTORIES  
WORLDWIDE TO BE CLOSER TO YOU



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