



Blewin

**New hungarian battery
system**

www.blewin.hu



Why lead?

$P = UI$

or

$P = I^2R$

Why Blewin?

POWERFRAME OUTSIDE. TRUE STRENGTH INSIDE.

United States / English | Contact Us

POWERFRAME TECHNOLOGY COMPARE GRIDS FAQ WHERE TO BUY

A BATTERY IS ONLY AS GOOD AS ITS GRID.

When it comes to your car battery, chances are you don't want to think too hard about it. You just want it to work. Turn the key. Get on your way. Well, thanks to state-of-the-art engineering, strong, consistent starts are exactly what you get with PowerFrame® grid technology.

PowerFrame grid technology is the advanced science on the inside of the battery that gives it the strength to stand up to the elements outside. And the only way to know you've got True Strength on the inside is if your battery has the PowerFrame label on the outside. So you see, more robust performance over the life of your car's battery really can be a no brainer.

[COMPARE GRIDS >](#)

FIND POWERFRAME GRID TECHNOLOGY IN THESE LEADING BRANDS

Look for these brand names and make sure your next battery contains PowerFrame Grid Technology. Because a PowerFrame logo on the outside means True Strength™ on the inside.

[WHERE TO BUY >](#)

AUTOCRAFT

SYNERGY

FOR RETAILERS

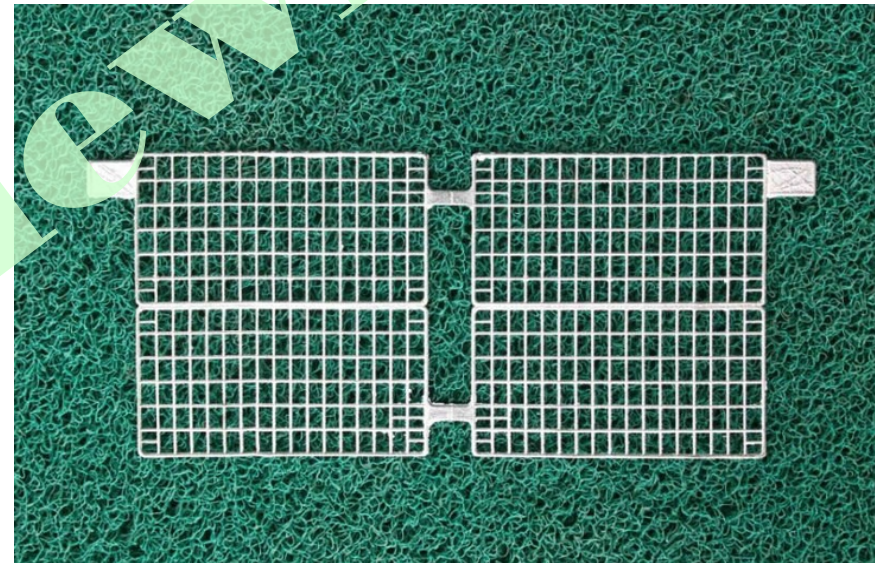
Want to know more about PowerFrame Grid Technology? Get trained now, so you can give your customers the information and advice they're looking for.

[Access PowerFrame eTraining >](#)

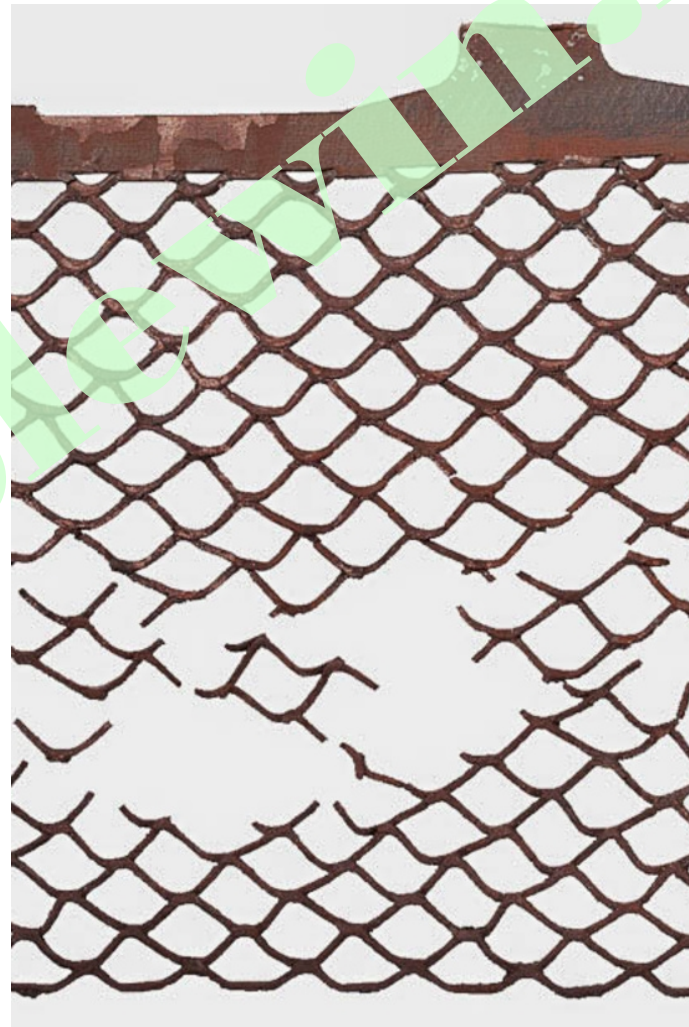
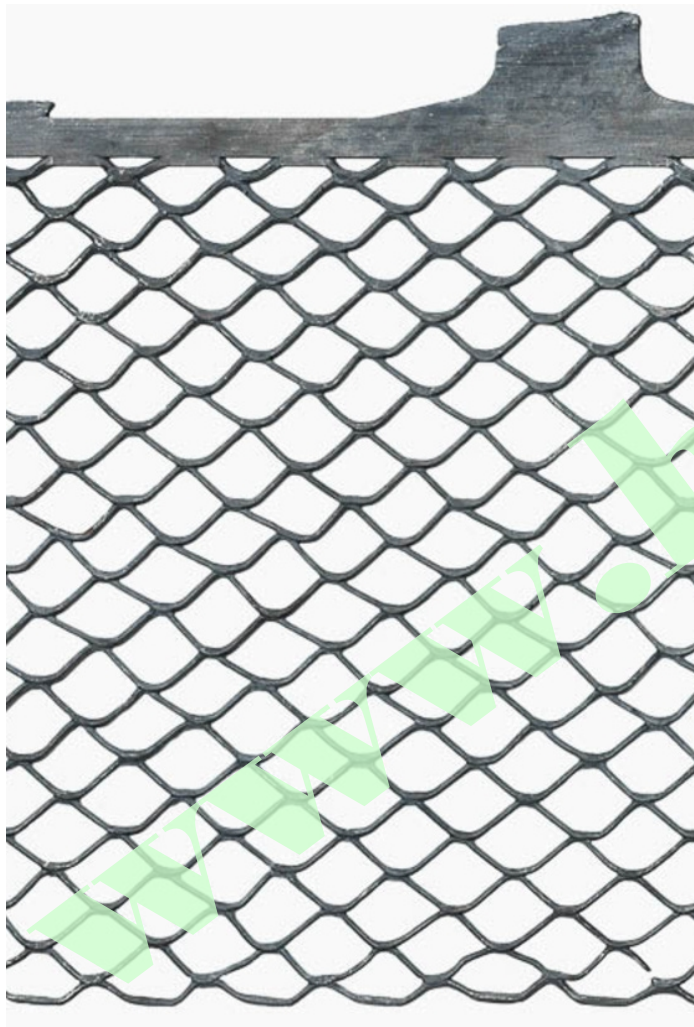
PowerFrame Technology Compare Grids FAQ Where to buy Contact Us Training

Pre-Blewin grids

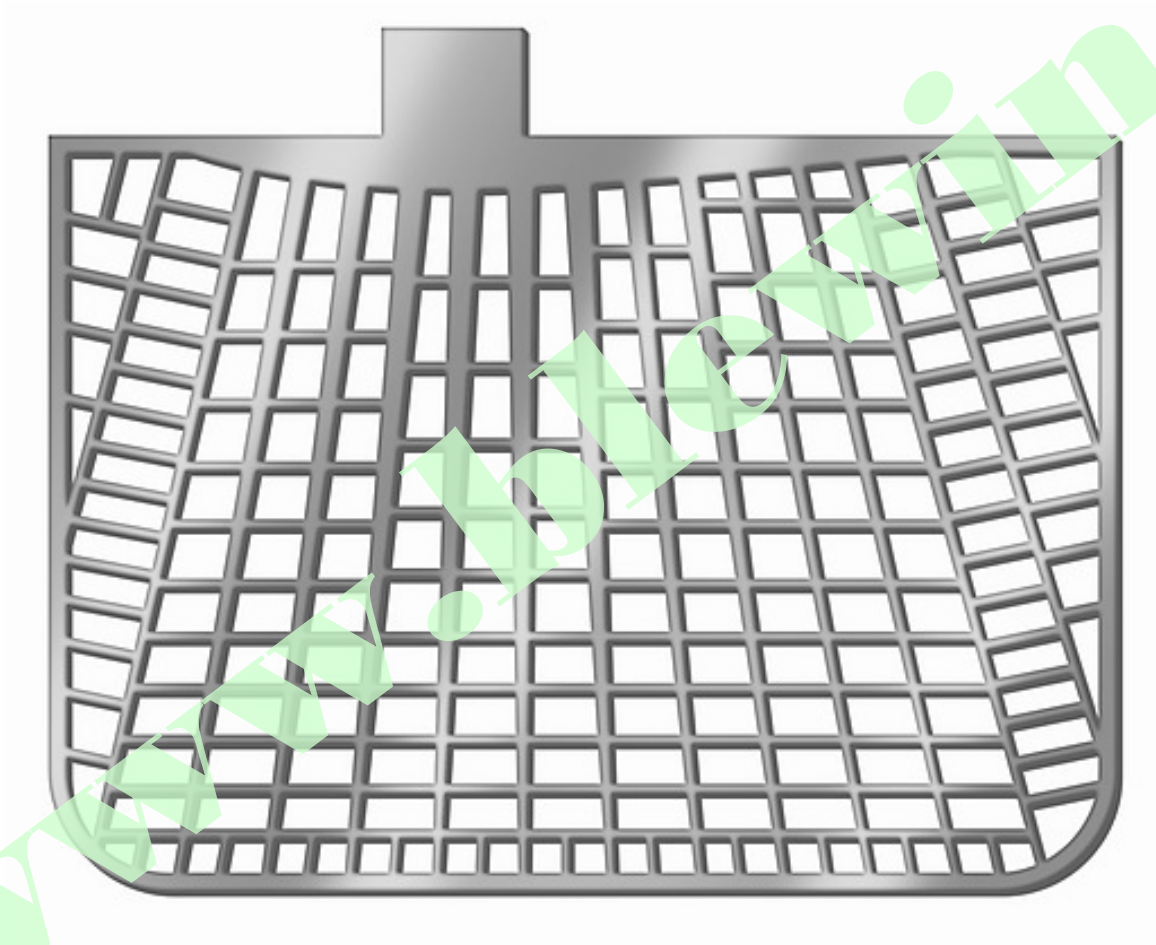
- **Casted, antimon-alloy**



Expanded grid



„Power Frame“

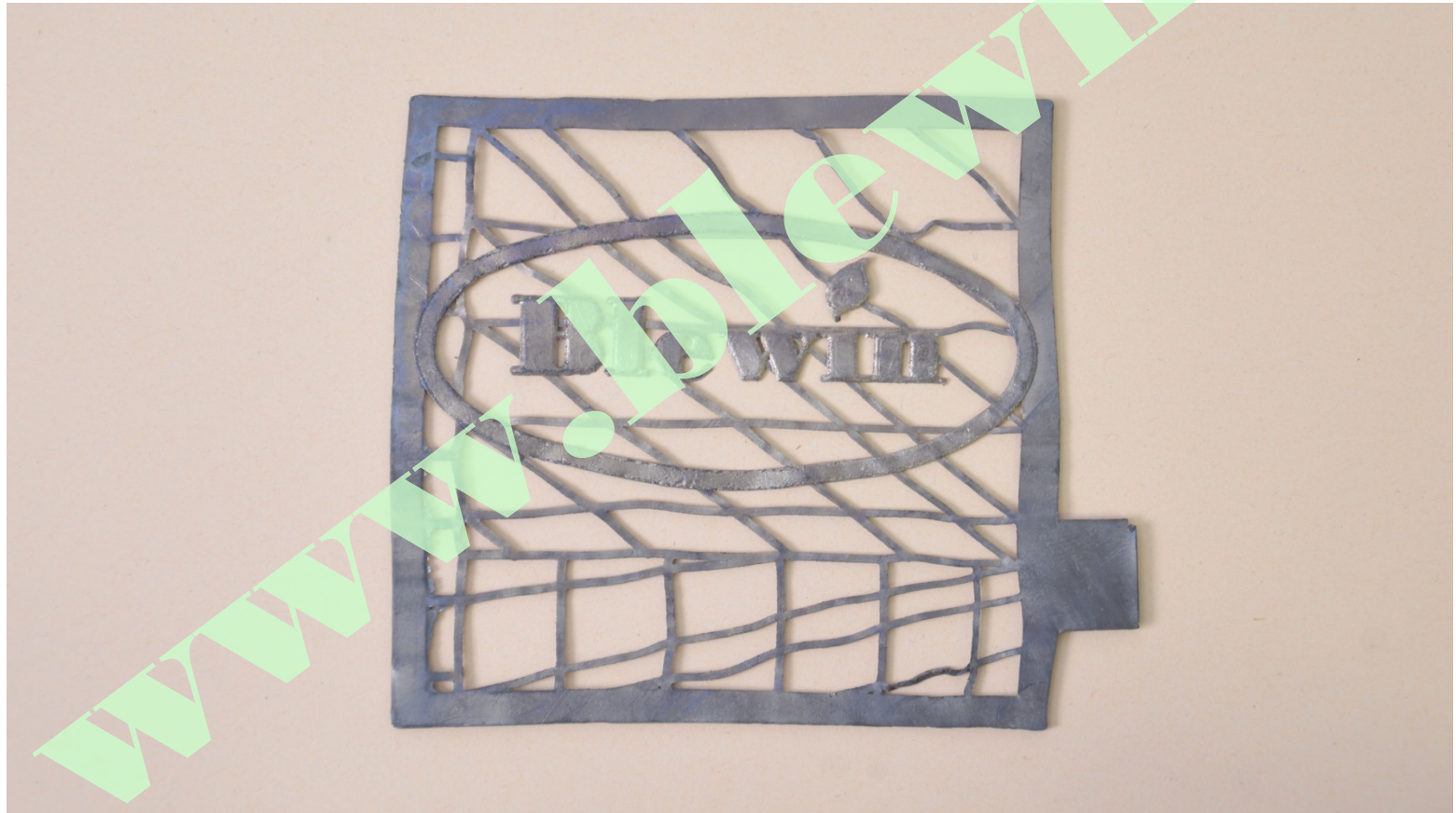


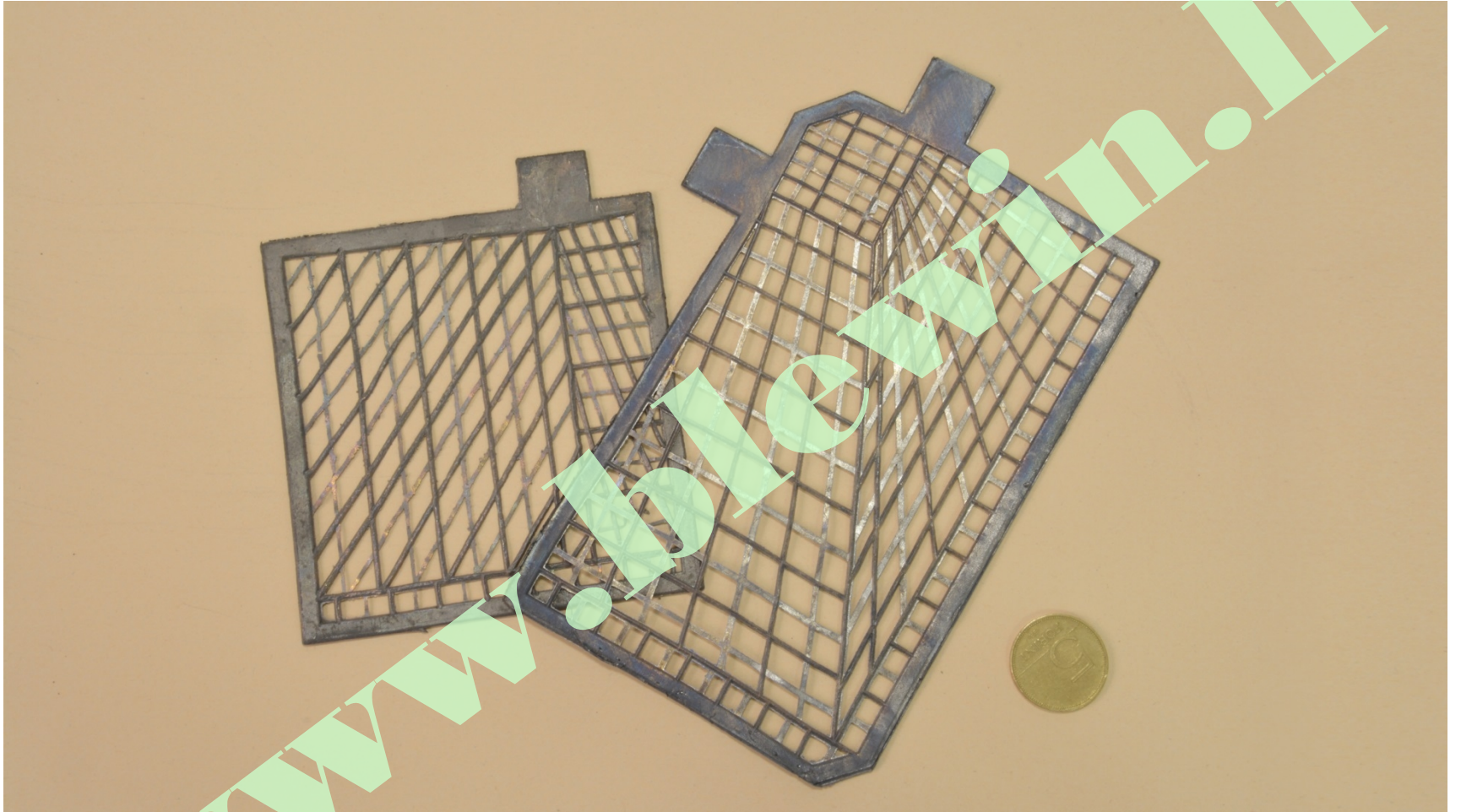
www.mil.li

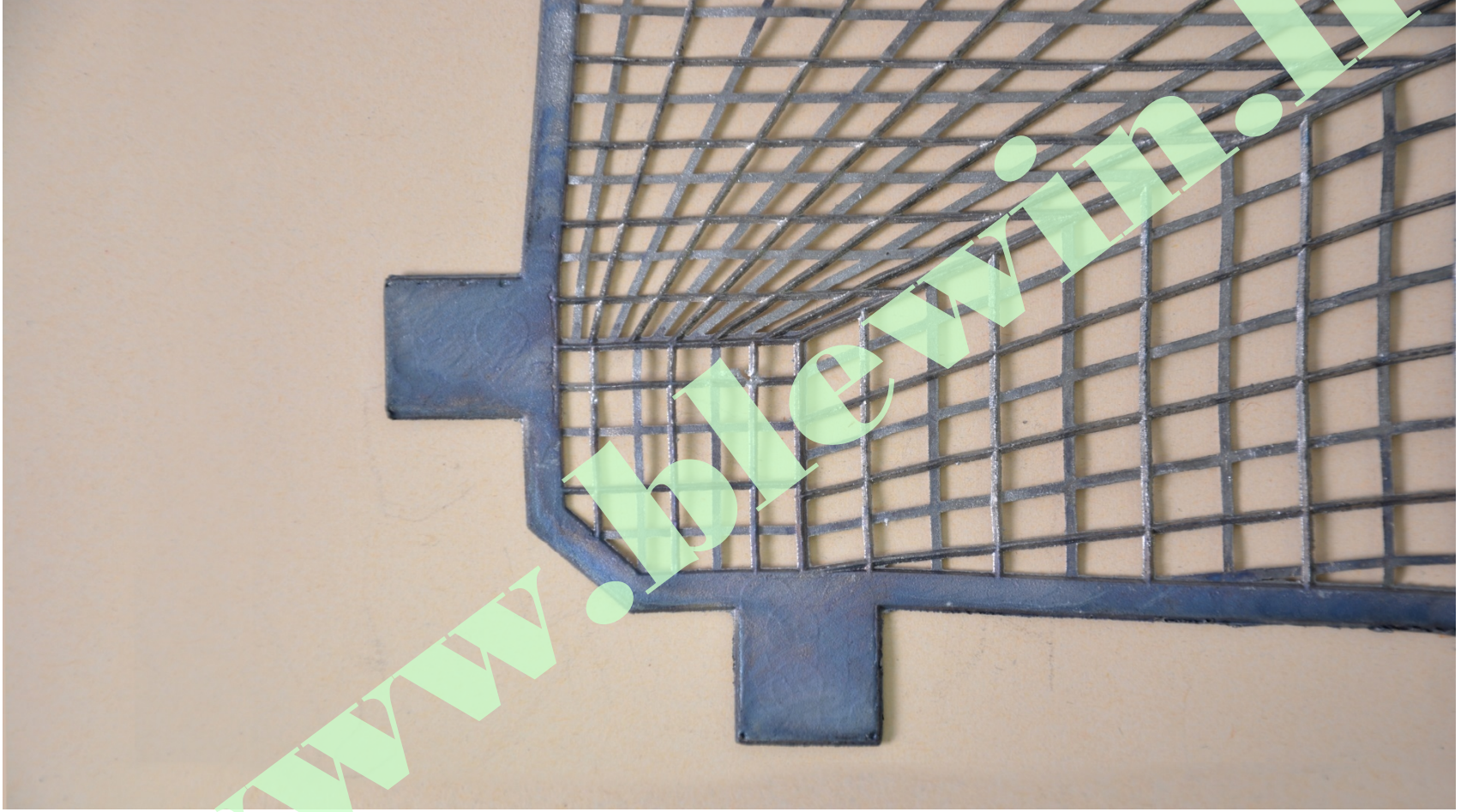
Comparison of grids

	Antimon-alloy (casted)	Calcium-alloy (expanded)	„Power- frame”	Blewin
Weight (g/piece)	85-95	70-80	100	35-45
speed of poduction	2/16 sec	continously	difficult	480/45 sec
„price” of technology	high	very high	high	medium
energy need of technology	high	high	high	low
recycling susceptibility	low	low	medium	high
internal resistance	medium	high	good	good
sulfation	medium	high	medium	nothing
electrical characteristic	medium	bad	good	good
lifetime	medium	medium	medium	long
qualification	3. – 4.	3. – 4.	2.	1.

The reasons







What is the different?

- **Physical:**

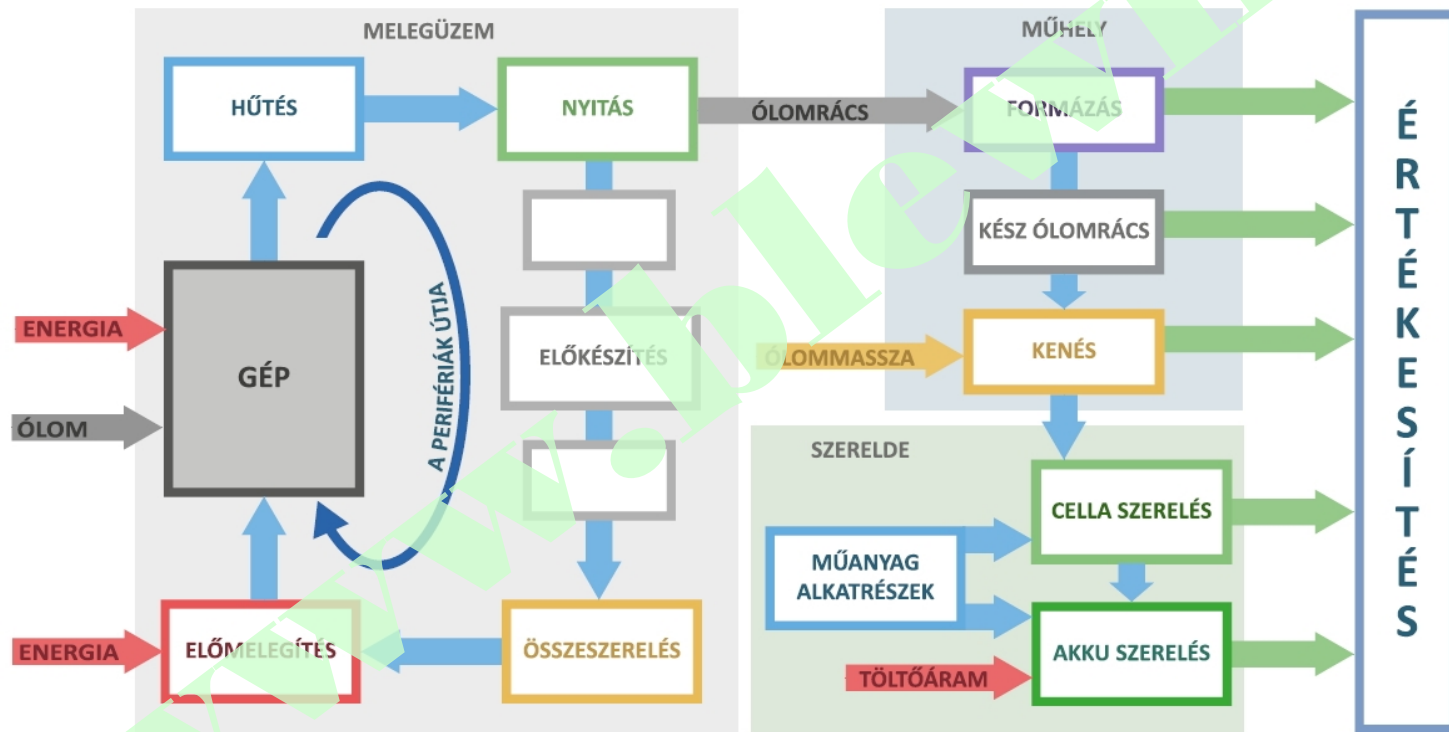
- **Bigger electrochemical active surface**
- **Very good resistance against resonance**
- **Less weight, less lead..**
- **Extreme good paste-holding**
- **Less internal resistance**
- **Optimal current ways**

- **Producing Technology**

- **Productivity**
- **Energy efficiency**
- **Recycling susceptibility**
- **Alloy independence (the best the pure lead!)**
- **Good price value for money**

production model

Az akkumulátorgyártás új módszere



**...if we have grids, we can
build batteries**

- **Marketing**
- **Tests – indoor, independent**
- **Target fields**
- **Start!**

Test results

- **In charging is not warming**
- **No unwanted gas secretion**
- **5 x „recommended” charging current**
 - **Independent from charger**
 - **Rapid**
 - **No sulfation**
 - **Minimal self-discharge**
 - **Extreme transient tolerance**
 - **Independent from temperature**

...if that's right, let's go on...!

- **„Classic“ battery fields...**
 - **Transport – traction, rekuperation**
 - **Emergency technologies**
 - **Military industry**
 - **other**
- **Brand new fields**
 - **Energy storage is small and big...**
 - **Renewable energies program**
 - **„smart grid“, virtual power station**

Bonus...

- **Very high recycling rate**
- **The plug-in hybrid cars also need lead-acid batteries**
- **The most pure lead processing technology**
- **double-walled container**
- **Very good economical indicators**
- **It hasn't concurrency**