



## L-TECH

High Capacity Filtration Cartridge for  
Plating and Industrial Applications



### APPLICATIONS

**Galvanic baths**  
(Copper, Nickel, precious metals, Zinc, Brass...)

**Degreasing baths**

**Stripping bath**

**Cleaning baths**

**Rinse water**

**Process bath, acid or alkaline**

**Coolant for machining, grinding, polishing**

**Hydraulic oil**



**REDUCE  
YOUR FILTRATION  
COSTS**

# How to Choose The Most Suitable Filtering Element

The following parameters need to be taken into account when comparing filtration elements:

**It is at the heart of your filtering system and can make all the difference between obtaining a perfectly treated product and a reject.**

## The filtration surface:

is a key element when selecting a filtering element as it determines the following two factors:

**the retention capacity:** the quantity of sediment retained prior to the destruction of the filtration media (make sure you take the possibility of washing and re-using into account).

**Loss of charge due to the installation of the filtering media:** loss of charge should be as low as possible so as to ensure the electrolyte rotates correctly and enable the pumping system to be used more efficiently.

## Media filtering efficiency:

Take the following example: 90% 1µ porosity means that 90% of the particles of 1µ and larger will be stopped when passing through the media.

It is essential to know the efficiency of a filtering media, knowing its porosity is not enough.

## The time required to change the filtering system:

This time has a direct impact on the installation maintenance costs and hence on the over filtering costs.

## Various systems currently exist:

**None of the existing filtering devices meet SIEBEC L-TECH superior performances**



**Wound cartridges**

### Advantages

Basic product widely available

### Drawbacks

Low retention capacity  
Low filtering quality  
Low filtering surface area  
Significant loss of charge  
High maintenance times  
Vertical retention of sediments



**Spun-bonded cartridges**

Possible to obtain high quality filtering

Low retention capacity  
High maintenance times  
Low filtering surface area  
Significant loss of charge



**Papers for plates**

Horizontal retention of sediments

Very low retention capacity  
Very long maintenance times  
Very low filtering surface area  
Very significant loss of charge

# Designed for Plating and Industrial Applications

## L-TECH

Every detail have been thought out to provide a reliable, efficient and cost effective filtration cartridge

### Combs

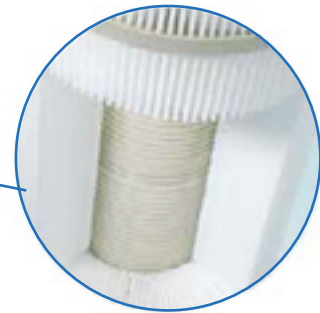
Patented by SIEBEC to keep the pleats apart and guarantee greater quality and longevity.

### Easier passage of the fluid

Polypropylene grill to keep the media being used separated.

### Retractable handle

Patented by SIEBEC for easy handling.



Diameter: 180 mm  
Available in 10" or 20" height

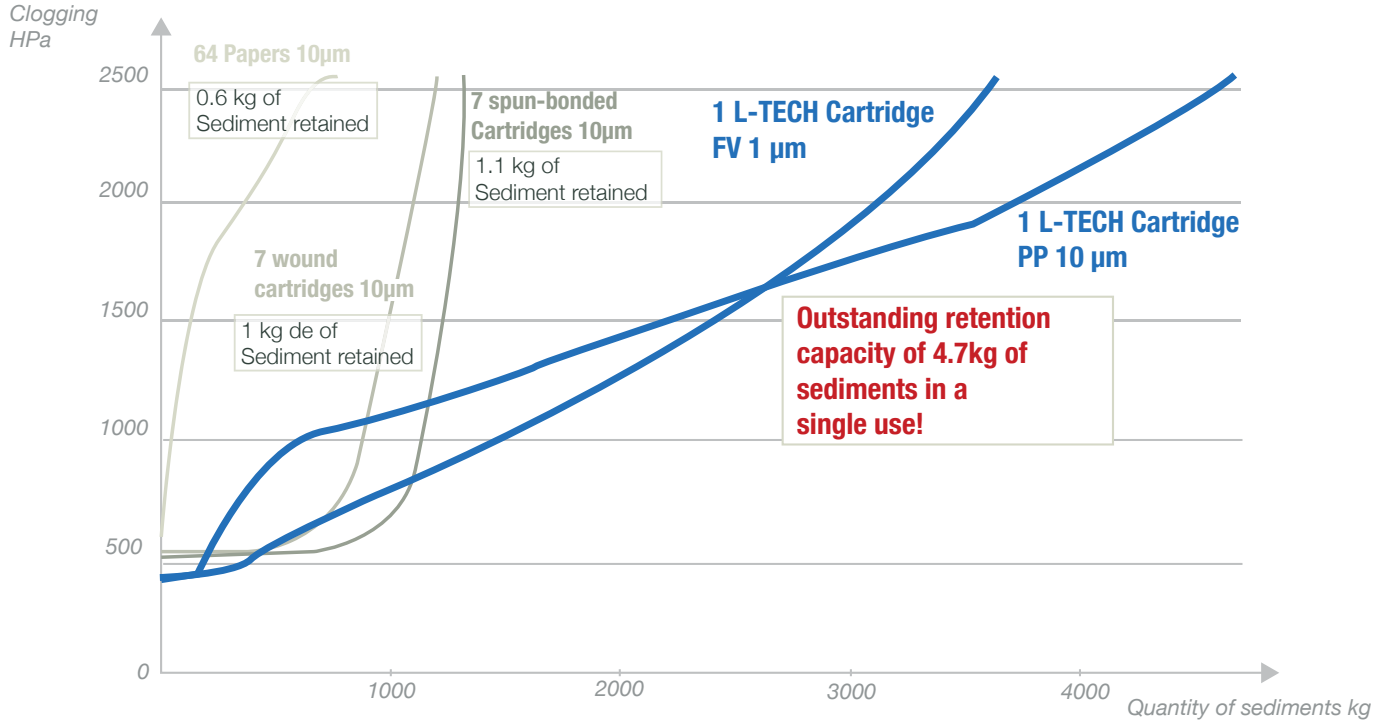
Characteristics	Advantages
Thanks to SIEBEC's mastery of pleated systems the filtration surface area is a very large 5m <sup>2</sup> for a twenty inch cartridge	Reduces filtration costs. Large flow rates thanks to the reduced loss of charge. High retention capacity
Cartridge with retention threshold of 99.6% from 0.2 to 100 μ	Quality of the filtered product and porosity adapted to the sort of electrolyte
Cartridge components entirely made of- Polypropylene (PP) (for L-TECH PP models only)	No risk of electrolyte contamination. Suitable for a wide range of electrolytes up to 160°F (70°C) PP. Media Adherence ensured by polypropylene.
May be washed 10 times on average	Significantly reduces operating costs

# Retention Capacity of Various Filtering Media

Tests carried out by the European Filter Centre in accordance with norms EN13 343-2 (NFX45-303) put using a SIEBEC L50 filter at 10m<sup>3</sup>/h



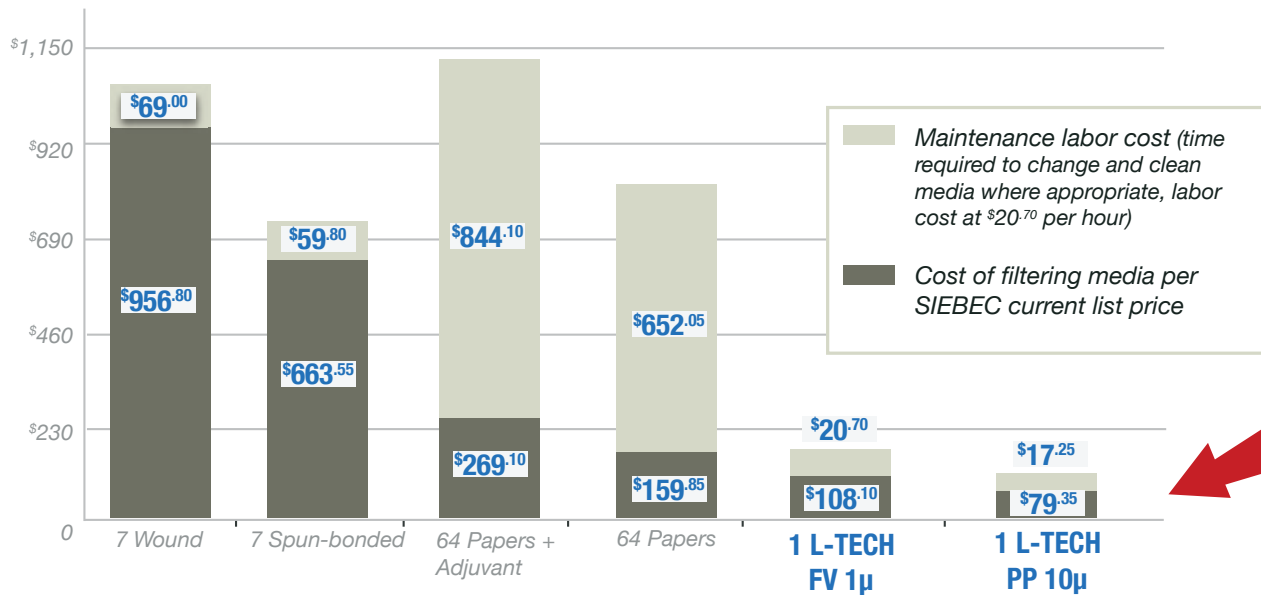
These tests carried out in accordance with current norms show that the L-Tech cartridge can retain up to 8 times more sediment for a single use, leaving other filtering media far behind! This outstanding retention capacity significantly reduces filtering costs.



## Comparative Analysis of Filtering Costs

Filtering costs for a SIEBEC L50 filter for 5 usages (washing and re-using)

Thanks to the L-TECH technology you can reduce your filtering costs by up to a factor of 10 over just 5 L-TECH cartridge usages! Filtering media costs are significantly reduced thanks to its reusability and high retention capacity. The user is placed at the heart of the L-Tech concept, which is quick to assemble and easy to handle resulting in spectacular time savings when changing media.



# Choose The Right Model For Specific Use

## L-TECH cartridges for galvanic baths

Model	Recommended for
L-TECH 1 micron	Copper, Nickel, precious metals acid baths
L-TECH 5 microns	Copper, Nickel, precious metals acid baths
L-TECH 20 microns	Zinc, Brass, precious metals, chromic acid baths
L-TECH PP 10 microns	Alkaline Copper, Nickel, Brass, rinse baths
L-TECH PP 50 microns	Alkaline baths, barrel Nickel, flux baths, rinse baths
L-TECH PP 100 microns	Zinc-Nickel baths

## L-TECH cartridges for industrial use

Model	Recommended for
L-TECH 0.2 microns	Colloids, prefiltration before reverse osmosis
L-TECH 1 micron	Process water, filtration before membranes
L-TECH 5 microns	Degreasing baths, process water, cleaning baths, coolant, pure oil
L-TECH 20 microns	
L-TECH 50 microns	Degreasing baths, alkaline or acid process water, cleaning baths,
L-TECH 100 microns	Rinse baths







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## Our Expert Services Include:

- Product Selection
- Material Selection
- Specification Assistance
- Engineering and Design
- Technical Support
- Plastics Testing
- Consulting Services
- Project Management
- Feasibility Studies

## Complete Filtration Systems for Your Plating and Industrial Applications

Specialty Plastics SIEBEC offers Complete Molded Filtration Systems—made with PP or PVDF—featuring superior corrosion resistance for your plating and industrial applications. SIEBEC systems have provided solutions in applications for over 50 years worldwide.



## CARTRIDGES • PUMPS • FILTERS • EDUCTOR NOZZLES

(Including high-capacity L-TECH pleated re-usable cartridges)

### Four-Point Guarantee\*

- Performance
- Manufacturing
- Satisfaction
- Price



Reducing Cost of Ownership • Speedchange Assembly in 30 Seconds\* • Re-Usable Filter Cartridges  
Magnetic Drive Pumps • Mechanical Drive Pumps • Vertical Pumps

\*Contact us for details.