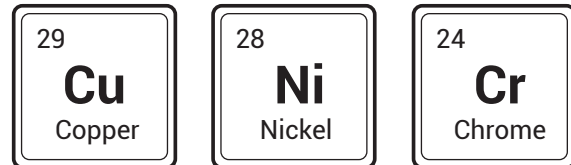
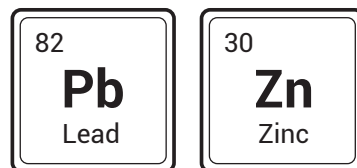


MOST COMMON APPLICATIONS

HEAVY METAL REMOVAL

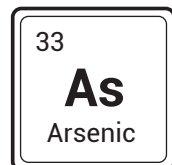


Surface treatment baths
pH neutral - basic - acidic



Ground Water
Stormwater

SPECIFIC APPLICATIONS



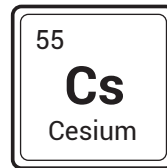
Ground Water
Mining Waste



Mining Effluents
WEEE Waste



Gold Plating Baths
Mining Waste



Nuclear Waste



APPLICATIONS

WATER PREPROCESSING

Softening
Deionization
Disinfection

AGRICULTURE, SOIL RECLAMATION PROCESSES

Pesticides, heavy metals, nitrates removal
Runoff water treatment

CHEMISTRY

Colorants removal
Organic acids purification

CATALYSIS

Fiber as strong acid/base catalyst
Immobilization of catalysts
Metal removal from reaction media

NUCLEAR MEDICINE

Extraction of radionuclides from biological samples and hospital waste

CHROMATOGRAPHY

Biomolecule separation
Inorganic ions separation

AWARDS

ATALANTE

Selective material for Cs137 decontamination from sea-water



Rare Earths recycling



Fibers for waste water treatment



Innovation Awards 2018
Fibers for a cleaner world

ABOUT US

AJELIS, a French company, was born of a collaboration between the French Alternative Energies and Atomic Energy Commission (CEA Saclay) and University Paris-Saclay.

From concept to production of fiber sorbent systems, adhering to stringent specifications, our aim is to contribute to sustainable development, not only within France but on a global scale.

We apply our material engineering expertise to address industrial challenges in waste management. Our goal is to provide customers with essential, innovative, and unique services.

Our mission is to deliver systems that maximize the effectiveness of waste treatment processes.

Our fiber metal sorbents are simple, efficient, and environmentally friendly. They allow companies to significantly reduce the size and costs of waste management systems, particularly those involving hazardous materials.

R&D Consultancy Services

- Custom fibers development programs.
- Individual consulting and customized solutions in areas related to liquid waste treatment.

INSTITUTIONAL PARTNERS



SUBSIDIARY COMPANY

CHIMIREC, an expert in waste collection and recovery, and AJELIS, have launched AJELCHIM, a joint venture aimed at enhancing environmental protection by offering a full suite of new plug-and-play equipment and services for waste treatment and recycling in France.



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France

+33 6 08 03 16 80

contact@ajelis.com

www.ajelis.com

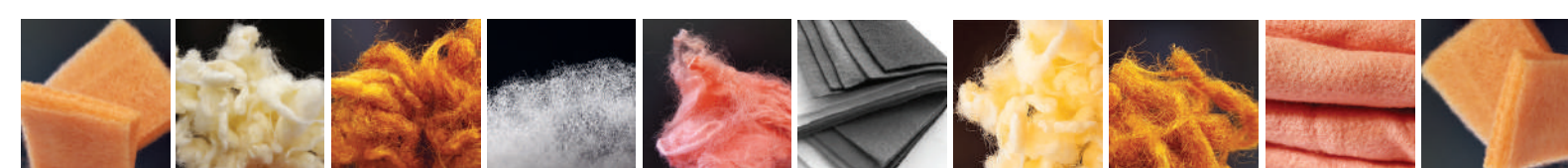


Fiber Materials and Solutions

for waste treatment and metal recycling



Heavy metals treatment
Radionuclides decontamination
Strategic metals recycling
Precious metals recycling
Organic pollutants removal



METALICAPT® FIBER SORBENTS

New generation of materials with extremely high surface areas

METALICAPT® fiber absorbents offer superior metal capture within a short time frame, providing a credible alternative or complement to ion exchange resins for promoting environmentally responsible industry practices.

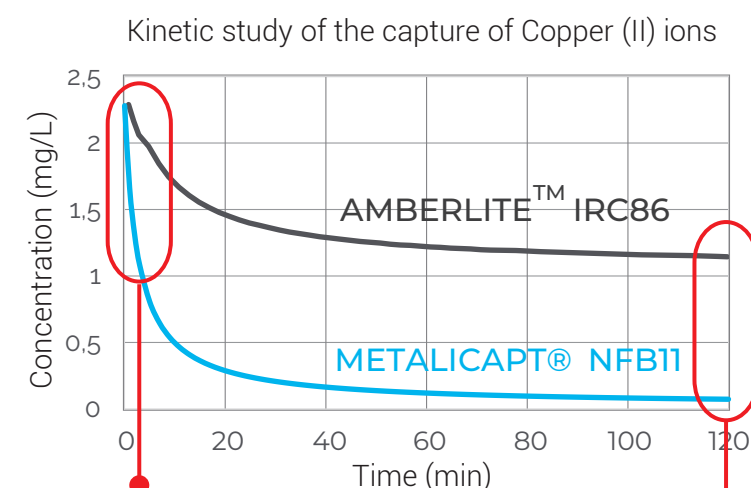
Composed of nano/micro-fibers, these absorbents exhibit significantly enhanced pollutant removal properties compared to existing metal removal technologies. These fibers enable exceptionally high capture speed, selectivity and capacity, while also reducing the frequency of regeneration needs due to their extremely large surface areas.

METALICAPT® addresses the most stringent environmental regulations and the precautionary principle of wastewater treatment and pollutant removal.

HIGHER PERFORMANCES

than conventional granular materials

- ✓ **Quicker**
> 10 times
- ✓ **More capacitive**
from 2 to 10 times
- ✓ **Selective**
Cs, As, Au...
customization upon request
- ✓ **Better Threshold**
ppb
- ✓ **Fast regeneration**
... and "green"

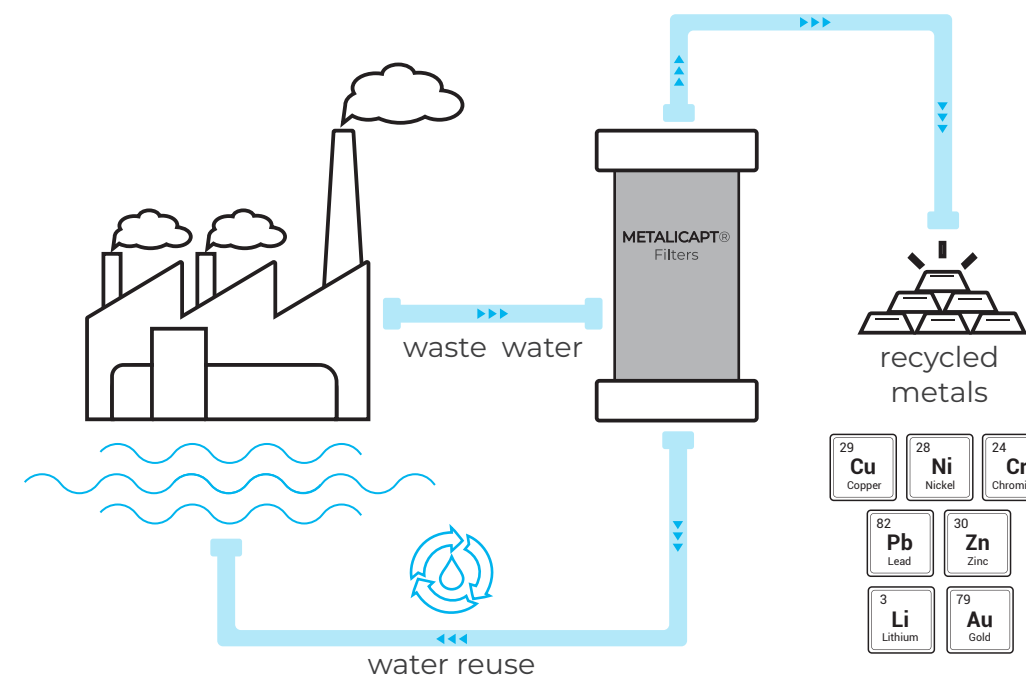


METALICAPT® NFB11:
quicker extraction kinetic,
faster regeneration

higher capacity,
better threshold level



HOW TO APPLY METALICAPT®



INDUSTRIES

- Surface Treatment
- Chemical
- Mining
- Aeronautics
- Agriculture
- Nuclear
- Construction

METALICAPT® FILTERING SYSTEMS



COLUMN M-1

9 L
1 - 1,2 kg of fibers
0,5 - 1 m3/h flow rate



COLUMN M-7

61 L
7 - 8 kg of fibers
2 - 4 m3/h flow rate



WOUND CARTRIDGES

Compatible with standard
filter housings in water treatment
(9"3/4, 10" or 20", standard or Big Blue)



STORM WATER FILTER

ADVANTAGES OF OUR SYSTEMS

- Efficiency over a wide range of pollutant concentrations
- Compliance with the most stringent regulatory requirements
- Easy metal recycling
- Rapid response in the event of an accident
- Easy hazardous metal transport/storage



Filtering systems can be tailored
to your specific requirements
by our engineering partners

AJELCHIM
A GROUPE CHIMIREC

HOW TO TEST OUR MATERIALS

1. Order a "Labo" Test Kit with columns specifically conditioned with METALICAPT® materials so that you can pass through your effluent and do your own analysis then. Most of materials are regenerable and can be re-used for many experiments.
2. Or send us your liquid waste sample and order a customized study with tests and analysis.

NEXT STEPS

1. Visit our website www.ajelis.com to download the Effluent Survey and send it to contact@ajelis.com.
2. We will then get back to you shortly with the best choice of material proposal and a testing protocol.