

# FILTRATION MEDIA AND FILTERS TESTING CHARACTERIZATION OF PERFORMANCES

#### **PROGRAM**:

### Filter media and filters for liquid treatments (2hrs)

- Classification, description of each products families, operations
  (wovens, clothes, fibrous media, nonwovens, papers, felts, plates, cartridges, aids for precoat,
  granulars, sands for deep bed, membranes),
- Technologies, description of filters and implemented modes

### Principles and mechanisms of filtration, micro, ultra, nanofiltration, reverse osmosis (1hr)

• Pressure drop, efficiency, clogging, fouling, rejection rate ...

## **Characteristics of filter media (4hrs)**

- Intrinsic : structure, particle size, mesh, pore ...
- **Functional** : hydraulic (permeability, pressure drop, ...), filtering (efficiency, threshold, cut-off, compatibility (resistance to mechanical, chemical stresses ...)
- Integrity check.

#### This program shows the panorama of :

- the characteristics of all types of filtration media,
- the methods, French and international standards, apparatus and test benches for their measurement.

The course alternates : educational **lectures**, content analysis and specifications of **standards** and experimental **measurements** 

in the Laboratory of Measurement and in the European Filter Testing Centre at IFTS

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