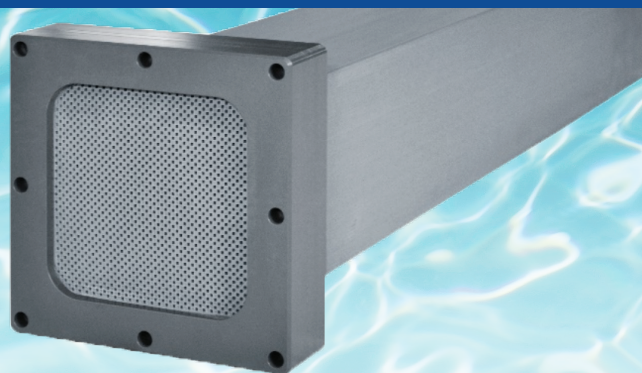


## Challenges in arsenic removal:

The World Health Organization believes that up to 200 million people are regularly consuming drinking water with unsafe concentrations of arsenic. Arsenic is now the top substance threatening human life, ahead of mercury and lead.

## Objective Crystar® microfiltration:

Combined with oxidation and flocculation processes, Crystar® membranes provide a robust and stable mechanical barrier to remove arsenic precipitates down to the safety levels required.



## Products recommended:

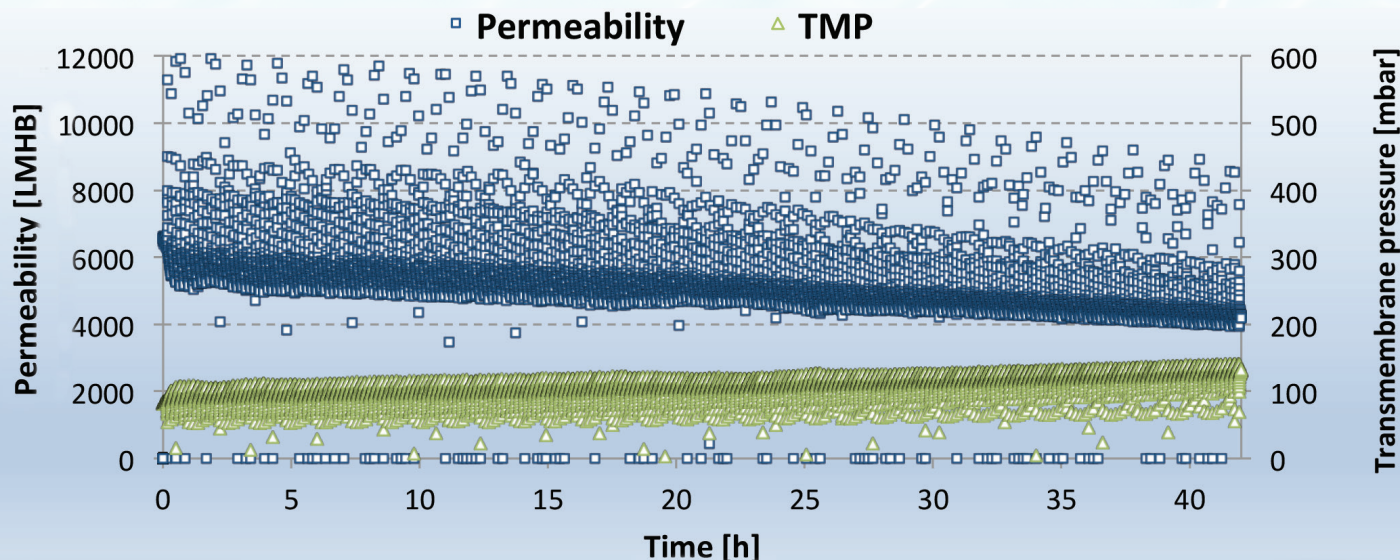
- Crystar® FT HiPur

## Feed Characteristics

- Turbidity: 80 - 100 NTU
- Total suspended solids: 55 - 75 ppm
- Arsenic content: 90 - 110 µg/l
- Pretreatment with NaOCl and FeCl<sub>3</sub>

## Result Summary

- Arsenic removal efficiency: 98% (permeate < 2 µg/liter)
- Iron removal efficiency: > 99.5%
- Filtrate flux: 500 - 600 LMH
- Water recovery rate: 97.8%



## Main benefits of Crystar® FT:

- Excellent retention of metal oxides and hydroxides
- Compatibility with the use of aggressive oxidizing chemicals
- High permeate flux
- Low pressure/energy operation
- High water recovery

For more info visit: [www.crystarfiltration.saint-gobain.com](http://www.crystarfiltration.saint-gobain.com)  
Or email: [crystarft@saint-gobain.com](mailto:crystarft@saint-gobain.com)

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