

## Applications

# Filtration

Fast particle analysis to improve filterability, reduce clogging, & monitor separation efficiency

**Particle Size & Shape**

**Total Suspended Solids (TTS)**

**Feed & Filtrate**

**Residual Particle Analysis**

## Process-Relevant Insights

Filtration performance depends on particle size, structure, and composition - our analysis shows why filters clog, blind, or fail to separate effectively.

- + Detect particle sizes at or near filter pore sizes
- + Quantify solids passing through the filter
- + Compare feed and filtrate to track filtration efficiency
- + Tune filtration settings based on real particle behavior
- + Identify particles that cause cake buildup

## What You See - And What It Means

The ParticleTech Analyzer captures particle images before and after filtration in just 2 minutes. You see size, shape, and deformability — and quickly detect what's retained, what passes through, and why filters clog.

## What You Gain

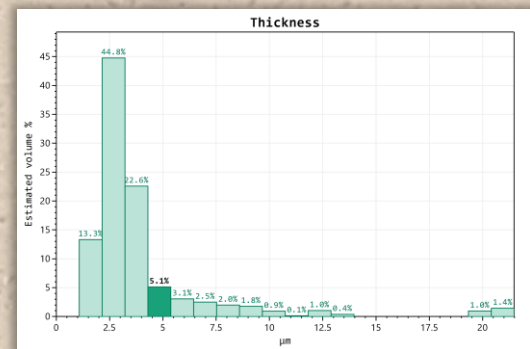
- ✓ Fast, reliable particle analysis in 2 minutes
- ✓ Real-time insight into filter performance
- ✓ Optimized filter selection and cleaning intervals
- ✓ Easy-to-use analysis in both R&D and production

## Read more at

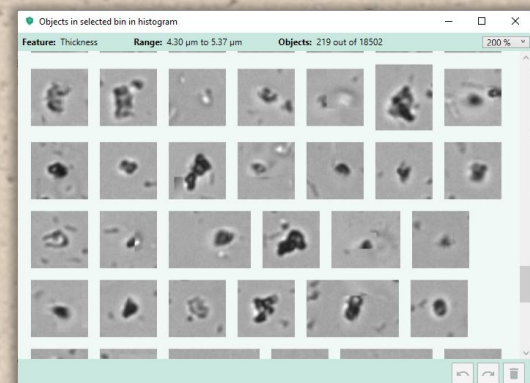
[particletech.dk/filtration](http://particletech.dk/filtration)

U.S. Patent No. 12,281,973

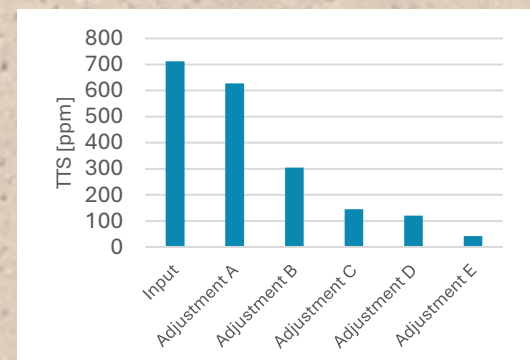
U.S. Patent No. 12,591,962



Particle Size Distribution



Particle Documentation



Total Suspended Solids (TTS)