

Celatom®

**Diatomaceous Earth
Filtration Provides
the Biodiesel Purity
You and Your
Customers Demand.**

**Prevent your customers'
filter from looking like this.**



Benefits of DE Filtration

Improves your cold
soak filterability

Improves feedstock
quality

Provides flexibility to
handle multiple feedstocks
without plant upset

Helps you meet the ASTM
D6751 biodiesel and ASTM
D975 diesel quality
standards

Natural filter media

Ep Minerals®
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Filtration with diatomaceous earth, due its ability to remove fine particulates down to 0.7 microns, can improve the cold flow performance point (cloud point) of the biodiesel through the removal of glycerols and steryl glucosides. In addition DE filtration is effective in the removal of the gummy, contaminated laden adsorbents used to remove phosphate, free fatty acids and more in order to provide the highest quality feedstock to the transesterification process.

Diatomaceous Earth (DE), is an industry proven, all natural filter media. It is the fossilized skeletal remains of millions of microscopic unicellular plants known as diatoms, which lived in the ancient fresh and salt water bodies of the earth more than 8 million years ago. The unique, natural, filter-like structure of this species provides high pore volume, large surface area, superior strength, and a low resistance to flow, making it the ideal filtration choice for purification of methyl esters and removal of adsorbents used in the pretreatment. Many of our biodiesel customers are BQ-9000 certified and produce biodiesel that meets the requirements of ASTM-D-6751 through the use of Celatom FW-14.



Single Diatom (approx. 5 microns wide x 20 microns long)

Typical Characteristics of Celatom® FW-14

Grade	Permeability (millidarcies*) Typical	Particle Size Removal (micron)	Color	Wet Bulk Density (lbs/ft ³)	pH
Celatom FW-14	1400	0.7	White	19	9.5

*A unit of permeability, equivalent to the passage of 1cc fluid with 1 centipoise of viscosity, flowing in under 1 second under a pressure of 1 atmosphere, through a porous medium 1 square centimeter in area and 1 centimeter thick. Permeability correlates to throughput and clarity characteristics.

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