



ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION™

FRAGRANCE FILTRATION

Fragrances demand various degrees of filtration from clarifying to final polishing filtration. Depth filters play a major role in assuring the highest degree of quality. The filtration of essential oils, from which many products get their fragrance, removes haze, particulate and possibly filter aids which were used in the refinement of these liquids.

Type	Composition Essential Oil/ Aromatic Compounds
Parfum/Perfume Extract	15-40%
Esprit de Parfum	15-30%
Eau de Parfum	10-20%
Eau de Toilette	5-15%
Eau Fraiche	3% or less
Eau de Cologne	2-8%
Aftershave	1-3%

The blending of essential oils with alcohols, water and other base solvents can result in the formation of haze or precipitates in the final product. Filtration of chilled fragrances through ErtelAlsop depth filter media is the quickest, most consistent and cost efficient means of polishing these liquids prior to filling.



Filtration Purpose	ErtelAlsop Product
Haze Removal	MicroMedia
Fine Particulate Removal	MicroMedia
Excess Essential Oil Capture	MicroMedia
Insoluble Waxes/Lipids Removal	MicroMedia
Color Adjustment/Removal	MicroClear Media
Water Removal	Zeta-Dri Pak

LABORATORY TRIALS

The most accurate way to optimize your process is through laboratory scale testing. Samples of Micro-Media® and Micro-Clear™ Media are available at no charge. Authorized ErtelAlsop representatives are equipped to run trials on-site, or product samples may be sent directly to ErtelAlsop for testing at our in-house laboratory.

THE FORMAT TO FIT YOUR NEEDS

All ErtelAlsop media formulations can be manufactured in formats to fit your application. Filter Sheets, Cut Discs, Pak® Lenticular Cartridges, and MicroCap Single-Use filter are all available to provide you with product to optimize your application.

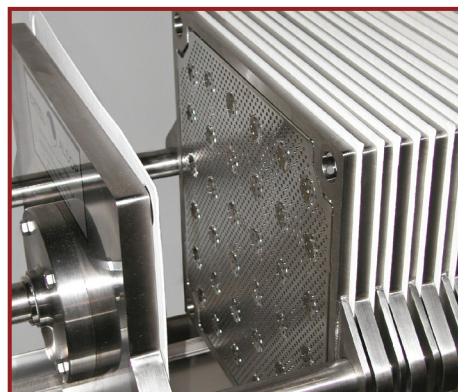
FILTRATION OF FRAGRANCES

PLATE & FRAME FILTERS

ErtelAlsop stainless-steel plate and frame filters are the standard equipment in the fragrance industry.

Features:

- Filter Area Flexibility/Expansion Potential
- Cake Retention For Precoat And Body-Feed Applications
- Durable, Sanitary, Long Lasting Stainless Steel Construction
- Bioclean Outlet Plates For Complete Cleaning
- Internally Ported Design / No Gaskets Needed On Plates
- Upgraded Hydraulic Closures Minimize Leakage
- Vapormaster® Enclosed Press With Hood



FILTER HOUSINGS

Our Pak® Filter Housings are well-suited to filter volatile liquids like perfumes and fragrances.

Features:

- Enclosed System For Vapor Control
- Minimal Product Loss
- Small Footprint
- Ease Of Handling, Clean-Up
- High Flow Rates
- Ideal For High-Volume, Low-Solids Polishing Applications
- Rapid Media Change Out

LABORATORY FILTERS

An ErtelAlsop Laboratory filters are perfect for processing small batches and samples. They are also used widely in the industry for R&D and Quality Control.

Features:

- Bench Top Design
- Customized Inlet For Pumped Or Funnel Filling
- Gas Pressurization
- Easy To Operate
- Pyrex Cylinder Option Allows For Visibility Of Product
- Ideal For Determining Scale-Up



MICROCAP CAPSULES

As with all ErtelAlsop depth filter products the MicroCap capsules provide performance consistency in an easy-to-use format.

Features:

- Encapsulated System
- High Purity Diatomaceous Earth
- Low Extractables
- Easy Scale Up
- No Capital Equipment
- Effective Filtration Area From 23 cm² - 2,880 cm²



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FILTRATION OF FRAGRANCES

RECOMMENDED FILTER MEDIA

ErtelAlsop manufactures a wide range of cellulose based filter media for use with fragrance, cosmetic and personal care products, which fit our wide selection of filtration equipment. All ErtelAlsop filter media is available in filter sheets, Pak® lenticular cartridges, and laboratory cut sheets.

MICRO-MEDIA®

Recommended Filter Media Grades for Fragrances: M-50, M-70, M-854



MICRO-MEDIA		Retention
Cellulose, Perlite, Wet Strength Resin	Cellulose, DE, Wet Strength Resin	
M-05		15 µm
M-10	M-104	10 µm
M-40	M-404	5.0 µm
M-45	M-454	2.5 µm
M-50	M-504	1.0 µm
M-50T	M-504T	0.8 µm
M-70	M-704	0.45 µm
	M854	0.3 µm
	M-954	0.2 µm

MICRO-MEDIA COMPOSITION

ErtelAlsop Micro-Media filter sheets are composed of cellulose pulp, Diatomaceous Earth and/or Perlite and a wet strength resin, which charge modifies the media to exhibit a net positive charge zeta potential. This allows for the highly efficient removal of particles smaller than the filter's nominal rating.

MICRO-CLEAR™

Recommended Carbon Media Grades for Fragrances: MC-35, MC-55



GRADE	RETENTION	MATERIALS
MC-35	5.0 Micron	Cellulose, Wet Strength Resin, S51 Carbon
MC-35C	5.0 Micron	Cellulose, Wet Strength Resin, CGP Super Carbon
MC-55	1.0 Micron	Cellulose, Wet Strength Resin, S51 Carbon
MC-55C	1.0 Micron	Cellulose, Wet Strength Resin, CGP Super Carbon

Activation Methods and Typical Applications

CARBON	ACTIVATION	TYPICAL APPLICATION
S51 Carbon	Steam Activated	General Applications
CGP Super Carbon	Chemically Activated	Decolorization

MICRO-CLEAR COMPOSITION

ErtelAlsop Micro-Clear filter sheets are composed of cellulose pulp, activated carbon, and a wet strength resin, which charge modifies the media to exhibit a net positive charge zeta potential.

In addition to our standard carbon grades, ErtelAlsop is capable of producing filter media with other carbon types.



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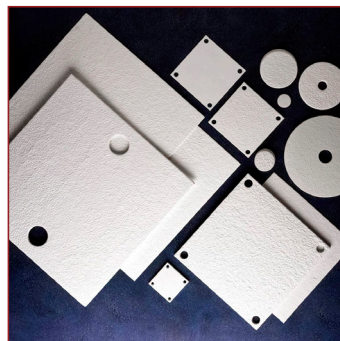
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COMMON FILTRATION APPLICATIONS

Application	Technology	ErtelAlsop Media Grade
Perfume Haze Removal	Plate and Frame Filter Model EUS	Micro-Media Grade M-70
Eau de Cologne	Plate and Frame Filter Model EFS	Micro-Media Grade M-70
Perfume Color Adjustment	Plate and Frame Filter Model 2HS	Micro-Clear Grade MC-35
Eau de Toilette Haze Removal	Filter Housing	Micro-Media Grade M-504 Zeta-Pak
Perfume Polishing Filtration	Filter Housing	Micro-Media Grade M-454 Zeta-Pak
Essential Oil Water Removal	Filter Housing	Micro-Media Grade M-504 Zeta-Dri Pak

A network of technically trained sales representatives and distributors is available to answer questions, provide hands-on training, and arrange for on-site testing at your facility.

More detailed information regarding our filter media and filtration systems can be obtained by visiting www.ErtelAlsop.com or calling ErtelAlsop at 845.331.4552.



For additional product information visit **ErtelAlsop.com**

Technical Bulletin Frag-16

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