

Cellu-Flo Fiber Filter Aids

Product Data Sheet

Gusmer offers Cellu-Flo filter fiber aids that are widely used in many filtration applications. Cellu-Flo fiber can be used exclusively or as part of a body feed system to lengthen the filtration cycle time while improving filtration efficiency. Developed for use as a primary precoat and/or body feed, Gusmer's Cellu-Flo filter aids are available in many different fiber length distributions and formulations.

Typical Applications

As a primary precoat and/or body feed for:

- GUSMER Cellu-Stack® filters
- Plate and Frame filters
- Pressure Leaf filters
- · Recessed Plate Filter Presses

Available Grades

	Gusmer Enterprises, Inc.
	CELLU-FLO FUTER AID INTER
Gusmer CELLU-FLO FILTER AID	Mare wust

Grades	Description
CLR	Derived from pure, highly refined alpha cellulose fibers
CLS	Derived from pure, highly refined alpha cellulose fibers and charge modified to increase filtration efficiency.
SL	Derived from select softwood.
RW	Derived from hardwood.

Benefits

- · Establish and maintain filtrate claritiy.
- Prevent blinding of filter septum and prolong septum life.
- Increase filter flow rates and improve filtration cycle times.
- Improve filter cake stability, enhance cake release and discharge.
- Prevent diatomaceious earth (DE) breakthrough when used in combination with DE.
- Use as an absorbent for oils and waxy contaminants.



The addition of cellulose to the DE slurry immediately improves the filtrate quality by reducing the DE bleed through as measured by the turbidity.

Note: Loading rate = 5 lbs/100 ft² fiber; 10 lbs/100 ft² DE. Addition rate = 1.5 GPM with 1% slurry of DE or mix

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Precoating

A precoat is formed by re-circulating Cellu-Flo fiber through the filter vessel until a cake is produced. A precoat serves two basic functions. It protects the surface of the filter media from contaminants that may prematurely blind it, which is often the case when filtering solutions containing gels, waxes or other surface plugging contaminants. Cellu-Flo fiber will also facilitate greater filtrate clarity at the beginning of the filtration run. This requires a precoat layer thick enough to prevent initial penetration of the filter surface area by the impurities being removed. It is recommended that the liquid used to form the precoat slurry have similar characteristics of the liquid to be filtered.

Precoating and Body Feed Instructions

Cellu-Flo dry weight requirement for 1/8" (3.2mm) cake/100ft² (9.3 m²) surface area

Cellu-Flo Grade	RW-100	RW-40	CLS-138	CLR-138	SL-138	SL-156	CLS/ CLR-236	SL-299
Precoat Dry Wt - Ibs (kg)	11.5 (5.2)	9.2 (4.2)	6.0 (2.7)	5.6 (2.5)	5.1 (2.3)	3.9 (1.8)	3.6 (1.6)	3.6 (1.6)

Fiber Length Percentages in Various Micron Ranges

	> 250 Microns	180-250 Microns	150-180 Microns	106-150 Microns	45-106 Microns	< 45 Microns
RW-100	0.1%	7.2%	8.4%	12.9%	49.3%	22.1%
RW-40	0.4%	13.1%	14.7%	29.6%	29.2%	13.0%
CLR/CLS-138	9.3%	28.9%	8.8%	12.7%	24.3%	16.0%
SL-138	54.0%	13.3%	7.7%	8.7%	14.4%	1.9%
CLR/CLS or SL-156	43.0%	9.0%	12.0%	6.0%	16.0%	14%
CLR/CLS - 236	64.0%	11.0%	8.0%	5.0%	7.0%	5.0%

Packaging

Cellu-Flo fiber is packaged in multi-wall bags. Palletizing is available upon request. Please contact your distributor or Gusmer Enterprises for the proper grade and recommended dosage for your specific application.



Important Note: Gusmer Enterprises, Inc. provides this information to the best of our knowledge. This information does not claim to be complete and Gusmer Enterprises, Inc. cannot assume liability for improper use. All users are advised to test products to meet their specific needs.