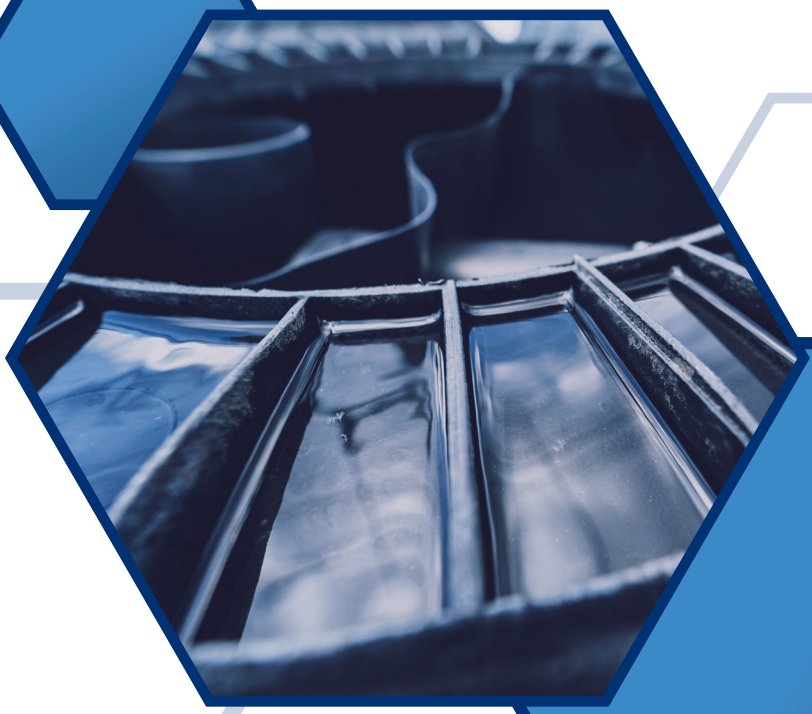
DuBois
SPECIALTY CHEMICAL SUPPLIER



Wastewater Treatment

Signature Collection

- Coagulants
- Flocculants
- Metals Precipitation
- Thickeners & Filter Aids
- Demulsifiers
- Odor Control

Coagulants

Coagulants are added to wastewater to eliminate charges keeping materials in solution and to combine small suspended solids into larger particles which can easily be separated from the wastewater solution. DuBois offers various coagulants to aid in clarification, emulsion-breaking, and metal removal.

Organic Coagulants:

PRODUCT	VISCOSITY (CPS)
Mitfloc 5376L	4000 - 6500
Mitfloc 5379L	1000 - 3000
Mitfloc 5803L	2000 - 3250
WOCC-AM27	550 - 1000
WOCC-PD72	700 - 1000

Inorganic/Organic Blended Coagulants:

PRODUCT	INORGANICS
Coagulite 100	$FeCl_3$
Coagulite 200	Alum
Coagulite 4215	ACH
Coagulite 4460	ACH
Coagulite 4798	$AlCl_3$ / $CaCl_2$ / $FeCL_3$
Coagulite 4799	$AlCl_3$ / $CaCl_2$ / $FeCL_3$
Mitfloc 5350L	ACH
Mitfloc 5385L	$AlCl_3$
Mitfloc 5386L	$AlCl_3$
Mitfloc 5615L	ACH
Mitfloc 5845L	ACH
Mitfloc 5850L	ACH
Zetaklenz PA775	PAC

Inorganic Coagulants:

PRODUCT	DESCRIPTION
Coagulite 101	$FeCl_3$
Coagulite 141	$Fe_2(SO_4)_3$
Coagulite 201	Alum
Coagulite 301	$CaCl_2$
Coagulite 1151	$FeCL_2$
Coagulite 2019	PAC
Mitfloc 5390L	$NaAlO_2$
Mitfloc 5791L	$AlCl_3$
Mitfloc 5831L	$CaCl_2$
Mitfloc 5880L	ACH
P-346	$NaAlO_2$
WIAC-PA75	PAC

Inorganic Blended Coagulants:

PRODUCT	INORGANICS
Coagulite 4613	$FeCl_3$ / $AlCl_3$
Mitfloc 7983L	$ALCl_3$ / $CaCl_2$ / $FeCL_3$



Flocculants

Flocculants are long-chain polymers that aggregate coagulated solids into larger masses to aid in solids removal from wastewater. Flocculants are used in many wastewater processes including clarification, oil/water separation, heavy metal precipitation, sludge dewatering, and phosphate removal.

Anionic Emulsions:

PRODUCT	CHARGE	MOLECULAR WEIGHT
Floculite 265	Medium	Ultra High
Floculite 1124	Medium	High
Floculite 1140	Very High	Ultra High
Mitfloc 5109E	Low	High
Mitfloc 5137E	Medium	High
WOAF-PM03	High	Very High
WOAF-PM04	Very High	Very High

Cationic Emulsions:

PRODUCT	CHARGE	MOLECULAR WEIGHT
Floculite 402	Medium	High
Mitfloc 5360E	Very High	Very High
Mitfloc 7688E	Very High	High
Mitfloc 7969E	Very High	Very High
P-483	Very High	High
WOCF-PM15	Medium	High
WOCF-PM16	Very High	High
WOCF-PM21	High	Very High
WT-1022	High	High
WT-1024	High	Very High

Cationic Liquids (ready to use):

PRODUCT	CHARGE	MOLECULAR WEIGHT
Mitfloc 5629L	Low	Medium

Anionic Powders:

PRODUCT	CHARGE	MOLECULAR WEIGHT
Mitfloc 5123P	Medium	Very High
WOAF-PP03	Low	Very High
WOAF-PP04	Low	Very High
WOAF-PP05	High	High
WOAF-PP06	Low	High

Anionic Liquids (ready to use):

PRODUCT	CHARGE	MOLECULAR WEIGHT
Floculite 551	Medium	Very High
Mitfloc 5122L	Medium	High

Cationic Powders:

PRODUCT	CHARGE	MOLECULAR WEIGHT
Floculite 2565	High	Very High
Floculite 2566	High	Very High
Mitfloc 5327P	Low	High
WOCF-PP07	Very High	High
WOCF-PP08	Very High	High
WOCF-PP09	Medium	High
WOCF-PP10	High	High
WOCF-PP11	High	Very High
WOCF-PP12	Very Low	Low

Metals Precipitation

Metal Precipitation products work to precipitate heavy metals from wastewater solutions, allowing the wastewater to be discharged below municipal requirements for metal concentrations. The DuBois product line can be used to treat hard-to-remove chelated metals, and results in reduced sludge generation compared to other treatment programs.

PRODUCT	DESCRIPTION
Coagulite 2718	Thiocarbonate
Coagulite 2750	Polysulfide, Sodium Hydrosulfide
EMR-LX	Carbamate
Hydrated Lime	Hydrated Lime
Hytherm 150	50% Sodium Hydroxide (Caustic Soda)
Mitfloc 5777L	Calcium Polysulfide

Thickeners & Filter Aids

Thickeners and Filter Aids are process additives which aid in the removal of solids in operations such as filter presses, vacuum belts, pressure leaf filters, vacuum tubes, and rotary vacuum filters. These products are effective in applications such as oil splitting, metal removal and clarification.

PRODUCT	DESCRIPTION
Accofloc 361	Bentonite Clay
Big Horn 40	Bentonite Clay
Coagulite 9270	Powdered Coagulant/Flocculant/Clay Mixture
Coagulite 9315	Powdered Coagulant/Flocculant/Clay Mixture
MC-255	Powdered Coagulant/Flocculant/Clay Mixture
MC-380	Powdered Coagulant/Flocculant/Clay Mixture
SK-17S	Filter Aid
WICC-AS01	Clay/ Soda Ash Mixture

Demulsifiers

Demulsifiers are used to break both water-in-oil and oil-in-water emulsions. Often, these additives are used as part of a “cook operation” designed to maximize oil recovery.

Demulsifiers (water in oil):

PRODUCT	DESCRIPTION
Mitfloc 5425	Nonylphenol Surfactant
P-483	Cationic Emulsion Used in Cook Oil Applications

Reserve Breakers (oil in water):

PRODUCT	MOLECULAR WEIGHT	STRUCTURE	DESCRIPTION
P-483	High	Linear	Cationic Emulsion
WOAF-PM16	High	Linear	Cationic Emulsion

Odor Control

Odor Control is a specialty segment of wastewater treatment. Odor control products can be misted into the air to combat odors or can be added directly to the liquid phase at the odor source. Maskants work to cover an offending odor with a more pleasant smell. Counteractants and reactants work by either physically or chemically reacting with the odor to eliminate it.

PRODUCT	CHEMISTRY	METHOD
DuNeutra-O	Perfume/Surfactant	Maskant
Mask IT Q+L	Perfume/Surfactant	Maskant
Nilodor C900	Organic	Counteractant / Reactant
Nilodor J820	Triazine Scavenger	Reaction
Nilodor J885	Essential Oils	Counteractant / Reactant
Nilodor J896	Essential Oils	Counteractant / Reactant

DuBois

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