

# SPECIALTY CLARIFICATION & COAGULATION SOLUTIONS



CHEMISTRY FOR A GREENER WORLD

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## INTRODUCING THE LATEST SERIES OF WATER & WASTEWATER TREATMENT SOLUTIONS

VYTAL's broad range of products and technical services focus on enhancing the water quality and efficiency of water treatment. The board range ensures that we can meet diverse and challenging process requirements.

### SPECIALTY CLARIFICATION & COAGULATION SOLUTIONS

Efficient water management is the critical need in treatment of raw water, sludge and wastewater. Water quality is the prime focus to a variety of industries and municipal corporations. Our new age formulations of performance chemicals - VYTAL is curated specifically keeping this in mind. We supplement these new generation specialty chemicals with our wide application knowledge and expertise.

### ABOUT US:

Grasim Industries Limited - Chemical Division is part of the Aditya Birla Group, which is a US \$ 48.3 billion corporation. We are among the largest producer of Chlor-Alkali products globally, catering to vast array of applications with our premium range of Specialty chemicals. We offer Products & Technical services for superior performance in Water treatment applications like Municipal drinking water, Sewage wastewater, ETP, Sludge-free clarification of pools, and pre-treatment / process treatment for various industries.

### APPLICATIONS:



#### OIL-WATER SEPARATION

VYTAL 2810 is a Highly efficient de-emulsifier for breaking oil grease in water emulsions followed by VYTAL A971. **Segments:** Refineries, oil exploration, and edible oil industries.



#### FLUORIDE REMOVAL

Excessive fluoride in drinking water cause fluorosis disease. Vytal CFR 2302 is a superior performance chemical that reduces Fluoride from water. **Segments:** Aluminium Smelter units, Industrial wastewater, Fluoride enriched surface/groundwater area, etc.



#### INDUSTRIAL WASTE WATER TREATMENT

VYTAL 2803 Highly efficient coagulant for removal of natural organic impurities, bio residues, color, etc. **Segments:** Textile, CETP, Pharma, STP, Pulp & Paper, Tannery Industries.



#### SPECIALTY CHEMICAL FORMULATION/WATER TREATMENT

VYTAL HBC supra is a high-performance liquid cationic coagulant for clarification of water, Industrial wastewater and can be used in other industrial applications; **Segments:** Specialty Chemical Formulation, Water Treatment, etc.



#### COLOR REMOVAL - REACTIVE DYES

VYTAL 630 is recommended as a de-coloring agent for the removal of dyes and color from industries wastewater. It should be used with cationic coagulant followed by VYTAL A971 for cost-effective treatment of wastewater. **Segments:** Textile processing units and CETPs.



#### PAPER SIZING AND WASTE WATER TREATMENT

VYTAL 605 is a highly stable, liquid cationic coagulant for clarification of Industrial wastewater and paper sizing application. **Segments:** Paper Industry & Waste Water Treatment



#### COLOUR REMOVAL - DISPERSE DYES AND PIGMENT

VYTAL 641 is recommended as a cationic de-coloring agent for removal of dispersed dyes & clarification of water and wastewater followed by VYTAL A971 for cost-effective treatment of wastewater. Using this combination, we were able to meet discharge parameters in terms of pH, COD, Color, TOC, etc. **Segments:** Textile processing units and CETPs.

Collaboration with Top OEMs



## CERTIFICATIONS:



Certified to NSF / ANSI 60

## R&D, WATER LAB FACILITY, TECHNICAL SERVICES:

Our DSIR recognised R&D facilities and state-of-the-art Water application centre are focused on providing customised solutions for Coagulation, Clarification and Disinfection of water.



Filed **4 patents**



**DSIR Recognition**  
in March 2017



Collaboration with  
**National Institutes**  
like DST, NEERI, NCL,  
CIFE, MNIT



**Technical Support**  
starting from lab trial to  
plant scale application  
and post sale support

## VYTAL 612

It is high performance liquid clarification aid for settling of process chemicals, Industrial water & wastewater and may be used in other industrial applications. It is recommended as cationic clarification aid.

PARAMETERS	SPECIFICATIONS
Physical form	Slight yellow to color-less liquid
Specific gravity at 25°C	1.3 - 1.4
pH of 5% aq. solution, w/v	3.5 - 4.5
Insoluble, % by mass, max.	0.5
Viscosity at 25°C, mPaS	100 - 300

## VYTAL 613

It is recommended as cationic clarification aid for settling of substrate & clarification of water and wastewater. It is also used for settling of algal bloom.

PARAMETERS	SPECIFICATIONS
Physical form	Slight yellow to color-less liquid
Specific gravity at 25°C	1.3 - 1.4
pH of 5% aq. solution, w/v	3.5 - 4.5
Insoluble, % by mass, max.	0.5
Viscosity at 25°C, mPaS	50 - 200

## VYTAL 641

It is a high performance de-coloring agent for removal of dispersed dyes, colloidal and suspended impurities. It enables fast settling of material, resulting in low retention time required in the process. It is designed to meet all the discharge parameters in term of pH, COD, Colour, TOC, etc.

PARAMETERS	SPECIFICATIONS
Physical form	Slight yellow to color-less liquid
Specific gravity at 25°C	1.3 - 1.4
pH of 5% aq. solution, w/v	3.5 - 4.5
Insoluble, % by mass, max.	0.5
Viscosity at 25°C, mPaS	20 - 200

## VYTAL 2803

It is highly efficient coagulant for removal of natural organic impurities, bio residues, oil & grease, colour, etc. It is recommended for industries like pulp & paper, leather, food and refinery. Industrial application may include coagulation of natural impurity, pollutant, as de-emulsifier, coagulation of anionic colloidal impurities & dyes, and sludge dewatering.

PARAMETERS	SPECIFICATIONS
Physical form	Yellow to brown color liquid
Specific gravity at 25°C	1.35 - 1.39
pH of 5% aq. solution, w/v	3.5 - 4.5
Insoluble, % by mass, max.	0.5
Viscosity at 25°C, mPaS	0 - 1

## VYTAL 2810

It is recommended as cationic coagulant for removal of colloidal dissolved/ suspended impurities & clarification of water and wastewater. Industrial application may include anionic trash controller, as paper additive and sizing agent, as deemulsifier, coagulation of anionic colloidal impurities & dyes, sludge dewatering, etc.

PARAMETERS	SPECIFICATIONS
Physical form	Slight yellow to color-less liquid
Specific gravity at 25°C	1.3 - 1.4
pH of 5% aq. solution, w/v	3.5 - 4.5
Insoluble, % by mass, max.	0.5
Viscosity at 25°C, mPaS	100 - 500

## VYTAL A971

It is high molecular weight, highly charged anionic flocculant. It is used in various liquid solid separation systems in different industries. It is popular in sludge dewatering process, raw water and wastewater clarification. It can also be used after application of cationic coagulant at inlet of clari-flocculator, thickener or in the stream for proper mixing.

PARAMETERS	SPECIFICATIONS
Appearance	White / off white granular powder
Molecular weight	High
ph (0.1 solution)	4 - 9
Bulk density	0.6 - 0.9 g/cc

## VYTAL HBC SUPRA

It is high performance liquid cationic coagulant for clarification of water, Industrial wastewater and exhibits higher performance at lower dosage than other conventional coagulants. This results in negligible residual aluminium in the treated water. It is best suited for Municipal Water Treatment and industries like pulp & paper, pharmaceutical, leather, food and refinery.

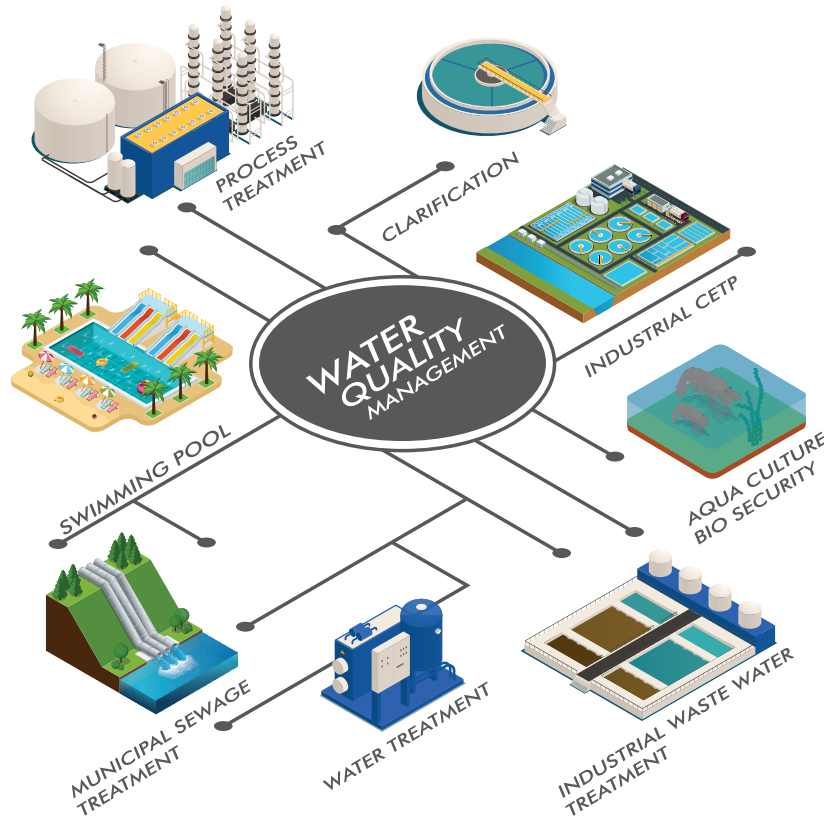
PARAMETERS	SPECIFICATIONS
Appearance	Clear colorless liquid
Specific gravity at 25°C	1.3 - 1.4
pH of 5% solution	3.0 - 7.0
Viscosity, mPas	20 - 80
Active content, %	45 - 55
Turbidity NTU	< 50

## VYTAL PACKAGING



Vytal is available in 25/50/250 kg HM-HDPE drums, 1000 kg IBCs, 35 kg carboys, 25 kg bags, and road tankers.

# YOUR TRUSTED PARTNER IN TOTAL WATER QUALITY MANAGEMENT



Manufactured & Marketed by:



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