

INDFLOC[®]

Solid-Liquid Separation Solutions



Ion Exchange (India) Limited is India's leading company in water and environment management, with a strong worldwide presence. Our superior application knowledge and outstanding service support truly help provide customised, one-stop solutions across diverse industries.

We offer range of INDFLOC polymers for solid-liquid separation to varied industries. Solid-liquid separation is encountered in major industries such as chemicals, fertilisers, steel, paper and mineral processing. INDFLOC polymers are offered in varying range of molecular weight and ionicity to suit specific application. INDFLOC polymers can be profitably used for:

- Treatment of industrial and potable water
- Recycling of waste water
- Recovery of valuable raw materials
- Sludge thickening and dewatering for disposal, which meets the pollution control standards

INDFLOC® Coagulants

These are synthetic cationic polymers based on:

- Poly DADMAC (INDFLOC 238 series) for drinking/ raw water and colloidal silica removal applications
- Polyamines (INDFLOC 239 series) for organic removal, deoiling, paper making, drainage aid and sugar colour precipitation
- DCDA based colour removal resins (INDFLOC 856 series) for coloured effluents for efficient decolourising



INDFLOC® Synthetic Flocculants

These are polyacrylamides with medium to high molecular weight, which are water soluble and available in powder form in the following ionic types:



- Cationic
- Anionic
- Non-ionic

We also offer anionic emulsions for specific applications in water, waste water and process applications.



INDFLOC polymers are specially designed to improve the efficiency of solid-liquid separation in processes like:

- Clarification
- Sedimentation
- Filtration
- Sludge thickening
- Dewatering
- Centrifugation

Applications

Raw Water Treatment

- Coagulation of colloidal particles, organic and microbiological suspensions
- Potable water clarification

Effluent Treatment

- Primary clarification and secondary thickening
- Organic and inorganic sludge dewatering
- Effluent treatment of wide pH range
- COD reduction scheme and tailor-made solutions

Colour Removal



In textile and tannery industry used for primary and secondary waste water treatment for high efficiency colour removal. Its proven advantages are low sludge generation in comparison with conventional treatment scheme and reduction in organic load to downstream.

Deoiling

In refinery and steel mills it is used for breaking emulsified oil through coagulation and floatation by flocculation aid. Specific polymer scheme for DAF (dissolved air floatation) to achieve desired oil

Sludge Dewatering



Wide range of dewatering polymers to suite decanter, belt press, filter press applications for industrial, municipal and bio-sludge.

Pharmaceutical

Treatment in pharmaceutical broth and recovery of vaccines. Effluent treatment coagulants and flocculants, sludge dewatering polymers for decanter and screw press operations.

Paper

Waste water treatment, fiber recovery, dissolved air floatation, deinking plant waste water solutions, sludge dewatering polymers for screw and belt press operations for the paper industry.

Sugar

Sugar juice clarification aid and colour precipitant for sugar refining process and floatation aid.

Benefits

- Large flocs, higher settling rate
- Superior overflow clarity
- Improved filtration rate
- Better compaction of solid
- Higher underflow density
- Improved coke consistency

All leading to

- Higher throughputs
- Increased recovery
- Improved purity of products
- Lower treatment cost
- Reduced maintenance cost
- Improved process control

INDFLOC® Dosing Systems

The preparation of solution of INDFLOC speciality polymers plays a critical role in effective usage. We offer suitable dosing systems for specific applications which are easy to operate and maintain.

Advantages

- Dissolves the polymer with ease
- Prevents lump formation
- Avoids wastage of INDFLOC polymers
- Proper control and optimisation with respect to feed parameters

Customer Support

Ion Exchange provides extensive training to help the customer in day-to-day monitoring and maintaining plant efficiency. Our well trained extensive dealer network ensures prompt and personalised service.

Technical Services

INDFLOC treatment programme is backed by a well trained and experienced technical team which provides all the support to improve the overall process efficiency of the plant.

Industrial chemicals manufacturing unit at Patancheru is ISO 9001, ISO 14001 and OHSAS 18001 certified.

To the best of our knowledge the information in this publication is accurate. Ion Exchange (India) Ltd., maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/brand offices for current product specifications.

INDFLOC is a registered trademark of Ion Exchange (India) Limited.

The services include:

- Survey & problem identification
- Right product selection from a wide product range
- Lab and plant trials
- Recommending appropriate dosing system
- Monitoring & control
- Trouble shooting
- Data management
- Training to site engineers
- Cost effective and tailor made solutions

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