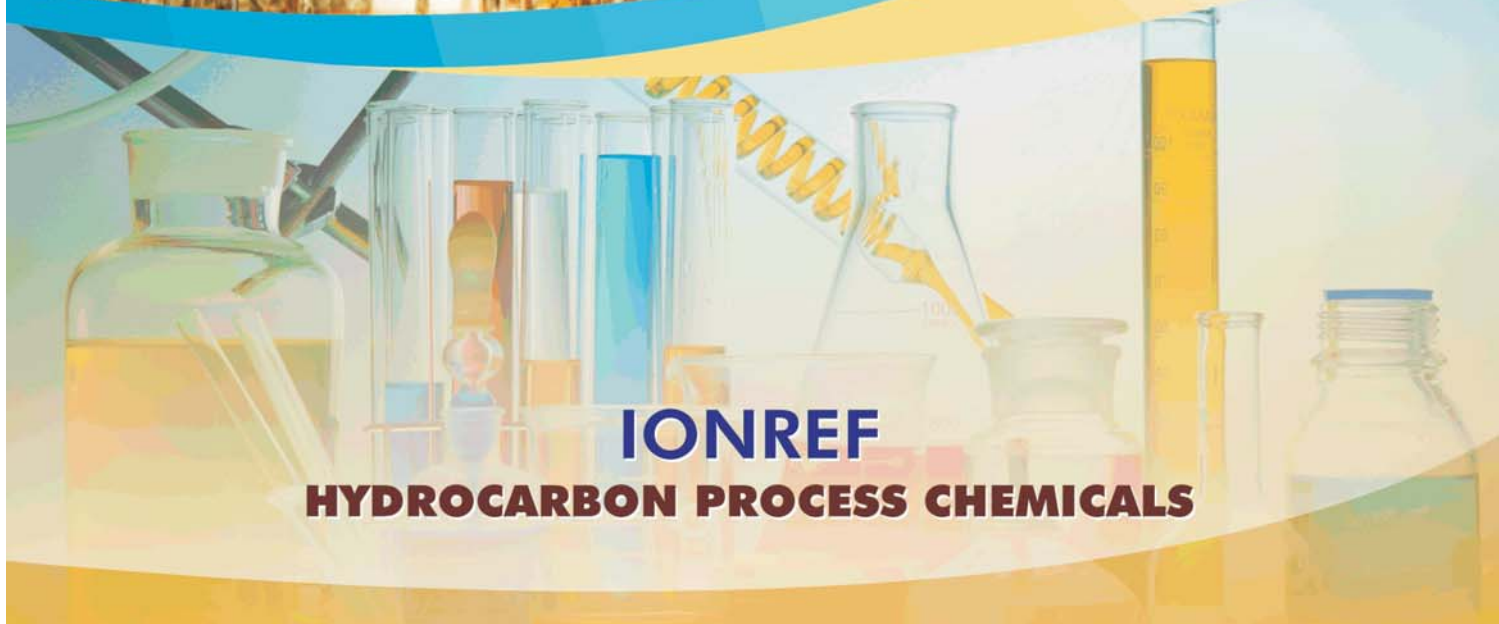
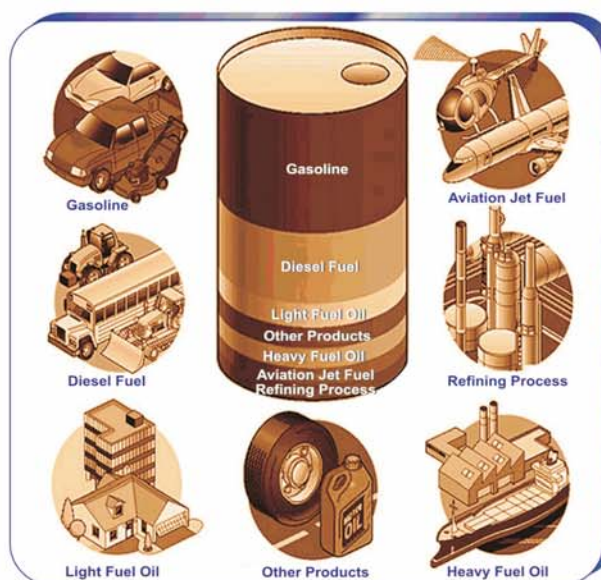


HELPING REFINERS MAXIMISE PROFITS



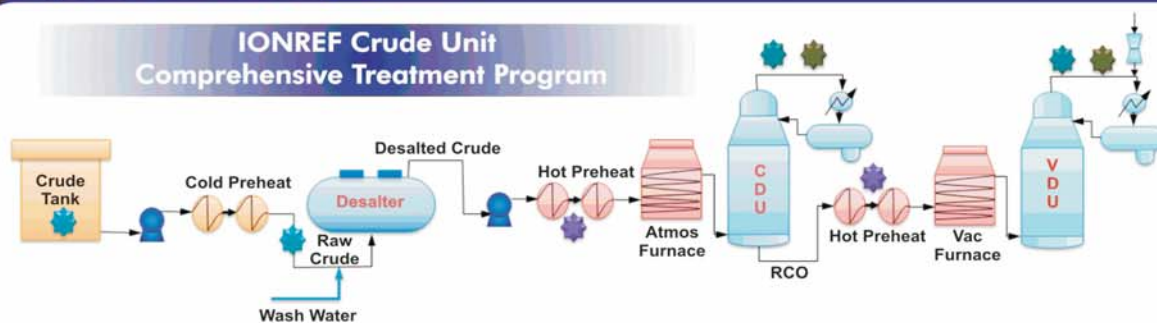
IONREF
HYDROCARBON PROCESS CHEMICALS

With over 45 years of experience in consistently meeting the specific needs of customers, using an integrated approach, Ion Exchange (India) Ltd. has achieved a leading position in total water & environment management as well as comprehensive process chemical applications and fuel additives.



The role of specialty chemicals to improve the unit run length and protect systems is well known to refiners. However the situation is compelling formulation of new and improved molecules in specialty chemicals that can meet new processing challenges. We have been undertaking extensive research in developing these molecules that can meet refiners' expectations and solve their processing challenges.

IONREF Crude Unit Comprehensive Treatment Program



- Dehydration/Desalting chemical programs
- Antifoulant chemical programs
- Neutralizing Amine(corrosion control)programs
- Filming Amine(corrosion control)programs

Meeting Changing Needs & Challenges

The rising demand for crude oil and resultant exploration of more crude from wells has created new challenges in its processing. Refiners worldwide are increasingly focused on the effect of these new crudes at different sections of their processing units with respect to operational as well as product specification requirements.

With state-of-the-art ISO 9001 & ISO 14001 manufacturing facilities, we provide world class products and solutions that can enhance refiners' operational excellence and processing efficiency to maximise profitability.

IONREF Process Chemical Treatment Solutions

We offer a range of process chemical applications and fuel additives to suit the wide crude basket of every refiner.



Desalter Program

Our range of desalting chemistries is formulated to enhance your desalter performance with a flexibility to handle wide range of crude basket.

Dewpoint Neutraliser Program



Our dewpoint neutralisers help in protecting the fractionator column overhead system from aqueous corrosion, by maintaining a uniform pH profile, right from the dewpoint location to the overhead boot water section.

Corrosion Inhibitor/Filmer Program



We have a range of corrosion inhibitor/filmer products formulated to form a stable film even at high temperatures in the distillation column overhead and even under wide pH fluctuations,

thereby protecting system internals from major corrosion sources.

Antifoam Program

We have both silica and non-silica based antifoam programs to minimise unit upsets due to foaming.

Antifoulant Program



Our high performance antifoulant treatment programs help you maximise your unit run length, saving huge energy cost.

In Situ Tank Cleaning Program



Our custom hydrocarbon recovery and in situ crude tank cleaning programs help you maximise hydrocarbon recovery from crude sludge, minimise crude sludge disposal issues and maximise crude tank utilisation with reasonable less downtime than conventional methods.

Fuel Lubricity Additive Program



Our lubricity products enhance lubricity for your low sulfur fuel stocks that have challenges of poor lubricity.

Fuel Pour Point Depressants Program



Our pour point depressant programs help upgrade the heavier fuel stocks and improve margins in fuel.

Diesel Stabiliser Program

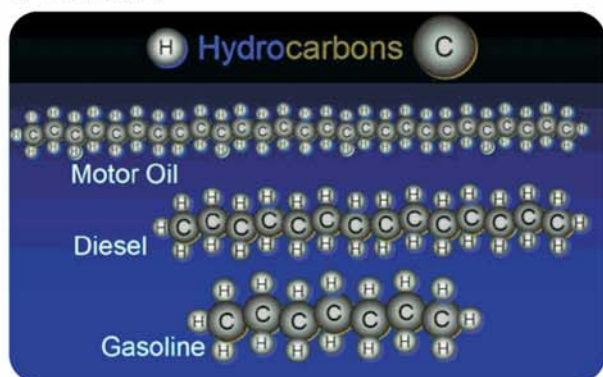


Our specially formulated diesel stabilizer additive packages help refiners improve the diesel fuel quality and assist in avoiding costly reprocessing off-spec diesel fuel into on-spec, by using the program treatment.

Complete Service Support

Economical operation with utmost reliability is a priority in modern petrochemical and refinery plants. Our complete support system is constantly at your service to help maximise overall production and performance levels, by ensuring continuous, optimum performance of our chemical treatment programs.

Our in-depth expertise in understanding process conditions is available to assist customers in choosing the right and most cost effective treatment solution, tailored to their needs.



Well trained on-site personnel regularly monitor chemical program performance and offer timely recommendations to optimise results.

Our emphasis is on the highest quality standards, constant innovation and 24/7 technical services to meet process and operational goals with our IONREF chemical treatment solutions - with the single objective of helping to boost our customers' profitability.

To the best of our knowledge the information contained 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 Offices for current product specifications.

IONREF is a brand name of Ion Exchange (India) Ltd.



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