



Online Salt Analyzer

Main Optimal Desalter Operation

The use of data from 3D CrudeFlex Online Salt Analyzer will ensure the salt removal efficiency is optimized, reducing the amount of caustic required to control overhead chlorides and helping to manage the threats to the crude unit overhead system.

Feedstock and process variability coupled with infrequent monitoring, makes it challenging to achieve optimum desalter performance. The 3D CrudeFlex Online Salt Analyzer provides the ability to continuously analyze with little time-lag results allowing the refiner to catch both feed and unit variations that may otherwise go unseen. This helps mitigating steps to be taken quickly, ensuring desalter performance is not compromised and enabling process optimization steps (e.g. adjusting the mix valve dP) to be taken during the same crude run.

Description

The 3D CrudeFlex Online Salt Analyzer provides salt-in-crude analysis hundreds of times per day and by placing these units on the inlet and outlet of the desalter, it can provide a continuous reading of total chlorine in the crude oil in real time.

Features

- Real-time monitoring CI
- Real-time monitoring of desalting efficiency
- Capture undesaltable chlorides

Benefits

- Reliable, continuous data on salts
- More consistent and effective removal of sodium
- Reduced need for caustic
- More flexibility in crude selection
- Optimized desalter operation

Analyzer Parameters

Analyte	Method	Frequency	Control
Total Chlorine	Monochromatic WD XRF	5 minutes	N/A

Nalco Water, an Ecolab Company

Downstream: 11177 S. Stadium Drive, Bldg. 31 • Sugar Land, TX 77478

North America: 1601 West Diehl Road • Naperville, Illinois 60563 • USA

Europe: Richtstrasse 7 • 8304 Wallisellen • Switzerland

Asia Pacific: 52 Jurong Gateway Road • #16-01 Jem Office Tower • Singapore 608550

Greater China: 18G • Lane 168 • Da Du He Road • Shanghai China • 200062

Latin America: Av. Francisco Matarazzo • n° 1350 • Sao Paulo – SP Brazil • CEP: 05001-100

Middle East and Africa: Street 1010, Near Container Terminal 3, Jebel Ali Free Zone, PO BOX 262015, Dubai UAE

Email: crudeflex@ecolab.com

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