

Total Chloride Removal Systems

Product Description

Revolutionizing chloride removal in oil refineries, CLS Industrial Purification provides absorbent systems which allow for 100% effectiveness of Chloride removal, longer cycle lengths - that are environmentally-friendly (discharged spent absorbent (non-hazardous) and cost efficient. The basis for this technology is our custom application-based approach.

Every system we install is custom designed and completely unique to the application. No two systems are the same.

Application / Function

This application is around the reformer (CCR) in oil refineries. HCl, λ -RCl and β -RCl are taken out from reformer H₂ gas and reformat liquid. CLS Industrial Purification produces zeolite-based absorbents that can remove all Cl species without forming green oils and RCl.

Through kinetic modeling of Cl treaters, CLS Industrial Purification can accurately predict cycle lengths, given differing contaminant levels. Accurate measurement of RCl in H₂ gas can be performed via onsite Cl survey, leading to accurate Cl balance around the CCR.

Typical Properties

Appearance – 6mm or range 3mm to 1.5 mm sized cylinders or variable sized shapes.

Color – Grey, Red, Beige, Brown

Designed Mass Transfer Zones of 8% versus 30% for highest grade alumina.

Recommended Loading

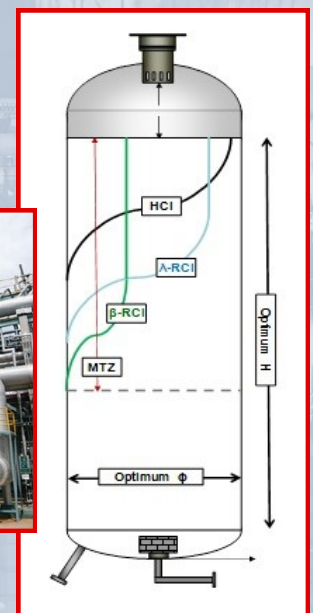
- Load into treater vessel from the top.
- Must use sock method

Packaging

- Super sacks 42 ft³ each
- Loaded Density 58 lbs/ft³ to 70 lbs/ft³ Average 65 lbs/ft³

Advantages

- Faster purging times.
- Encapsulation of contaminants.
- Free flowing spent material - much faster change out times.
- Steam out during purging means no requirements for hot nitrogen
- Spent product can be disposed of as Class 2 Non – Hazardous waste.
- High activity means small mass transfer zone (mtz) leading to high bed utilization



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CLS Industrial Products, “Customized to Maximize Total Chloride Removal”

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