

CitraStar

Citric Acid Anhydrous

pH reduction & Calcium Removal

Overview

Citric acid is a weak organic acid primarily applied in the oil drilling industry. As a biodegradable chelating agent, it aids in removing metal ions from drilling fluids, a crucial task in preventing harmful scale buildup that can clog drilling equipment and decrease operational efficiency. Citric acid plays an essential role in maintaining the desired pH levels in drilling muds, ensuring the stability and effectiveness of the drilling process. Furthermore, its eco-friendly nature makes it an ideal alternative to harsher chemicals, aligning with the growing emphasis on environmental responsibility in the oil and gas sector. The use of citric acid not only enhances drilling efficiency but also minimizes environmental impact, highlighting its value in modern oil extraction techniques.

Product Benefits

Scale Inhibition: Citric acid is effective in preventing scale formation. Scale, a buildup of minerals like calcium carbonate, can clog equipment and pipelines. Citric acid binds to these minerals, keeping them in solution and preventing their deposition.

pH Control: It helps in controlling the pH of drilling fluids and cement slurries. Maintaining an optimal pH is crucial for the stability and effectiveness of these mixtures, ensuring better performance during drilling and cementing operations.

Corrosion Prevention: By managing pH levels and chelating metal ions, citric acid reduces the risk of corrosion in drilling and cementing equipment. This prolongs the lifespan of the equipment and reduces maintenance costs.

Biodegradability: Being a biodegradable substance, citric acid is environmentally friendly compared to synthetic chemicals. This aspect is increasingly important in the oil and gas industry, which faces growing pressure to reduce its environmental footprint.

Compatibility with Additives: Citric acid is compatible with most other additives used in drilling fluids and cement slurries. This compatibility ensures that it does not interfere with the performance of other components in these mixtures.

Reduced Environmental Impact: The use of citric acid helps in minimizing the environmental impact of drilling and cementing operations. Its natural origin and biodegradability make it a safer choice for the environment.

Enhanced Cement Properties: In cementing applications, citric acid can improve the properties of the cement slurry, such as its rheology and setting time, which are crucial for successful well cementing.

Cost-Effectiveness: Compared to other chelating agents and pH control substances, citric acid is often more cost-effective, providing significant benefits without substantially increasing operational costs.

Specifications

Assay	99.5%
Moisture Content	<0.2%
Sulfate	<0.002%
Oxalate	<0.005%
Arsenic	<1 ppm
Appearance	White Crystalline Powder
Bulk Density	0.89 g/cm ³

Packaging

25 Kg BOPP Bags
 1000 Kg Super Sacks

Country of Origin

India

Other information

- Storage: Ensure storage in a cool, dry place and avoid incompatible substances.
- Fire Hazard: Although Citric Acid is not flammable, Use appropriate extinguishing media for surrounding materials.
- Spillages: To prevent leakage of any spills and dispose of them by local regulations.
- Disposal: Dispose of the contents/container in compliance with local, regional, national, and international rules.
- MSDS Available on request.
- Free samples available on request.
- Technical and Product support available. Call 91 97695 93030.

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