Innovation isn’t just what we do. It’s who we are.

BETTER, SAFER COKE CONTROL FOR ETHYLENE PLANTS
Safety, More Effective Coke Control

DA2632

Control furnace tube coke with an easy-to-use polymeric sulfur compound that outperforms DMDS: Dorf Ketal DA2632

DA2632 provides more consistent coke control over the full length of every furnace tube, generates more H2S at lower temperatures and keeps generating consistently high levels of H2S over a wider temperature range than DMDS and similar compounds.

The result is superior passivation of metal surfaces in furnace tubes and transfer line exchangers, and better, longer-lasting control of the catalytic process that forms coke deposits.

DA2632 Reinvents Coke Control

- Longer run time, less decoking
- Easier to handle, store and control safely
- Reduces energy consumption
- Improves throughput and product quality
- No objectionable odor
- Compatible and effective with all feedstocks
- Consistent quality — no metal or halogen impurities

Coke Chemistry Explained

Coke forms in a series of oxidation and reduction reactions catalyzed by the hot metal surfaces in pyrolysis furnaces and transfer line exchangers:

- $\text{H}_2 \text{S} + \text{C} \rightarrow \text{H}_2 + \text{S}\text{C}$ (oxidative catalytic conditions)
- $\text{C} + \text{H}_2 \rightarrow \text{CH}_4$ (reductive catalyst conditions)
- $\text{CO} + \text{H}_2 \rightarrow \text{CH}_4$ (oxidation catalyst conditions)
- $\text{CO}_2 + \text{C} \rightarrow \text{CO}$ (reduction catalyst conditions)

Sulfur passivates the metal, slowing these reactions, but the way the sulfur is generated makes a big difference in safety and performance.

The innovative polymeric sulfur in DA2632 is inherently less toxic than DMDS, and it provides protection at a more constant rate over a wider temperature range.

Get better, safer control of coke with DA2632 from Dorf Ketal

Call today.

Discover what Dorf Ketal can do for you.
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