REFINING

UOP Merox No. 21™ Catalyst

Description

Merox No. 21™ catalyst is a specially formulated, highly active, highly selective mercaptan oxidation catalyst developed specifically for caustic-free Merox™ sweetening of gasolines.

Applications

Merox No. 21 catalyst is used to achieve the sweetening of gasoline feedstocks in the absence of a strong base (NaOH). The high activity of Merox No. 21 catalyst, used in combination with Merox CF™ catalytic activator, allows the mercaptan sweetening reaction to take place in the presence of a weak base - ammonia (NH^3) at normal refinery product rundown temperatures. Caustic-Free Merox gasoline sweetening can be applied to light, heavy, or full boiling range FCC gasolines, natural gas liquids, and light straight run naphthas.

Merox No. 21 catalyst is provided in a ready to use preimpregnated state.

Typical Physical Properties

Form	Granules
Color	Black
Apparent bulk density*, lb/ft^3	33 to 39
(kg/m^3)	529 to 625
Size, US standard mesh	10-30

* Density of the activated carbon varies.

Packaging

- 40 cubic foot net (1.13 cubic meters) polypropylene supersacks
- 55 U.S. gallon (210 liter) steel drums containing 7.06 cubic feet net (200 liters)

Experience

Merox No. 21 catalyst is currently being used in several Caustic-Free Merox sweetening units. Capacity of these Caustic-Free Gasoline Merox units is approximately 100K BPSD.



FEATURES & BENEFITS

Merox No. 21 catalyst provides:

- Elimination of NaOH for gasoline sweetening
- High catalyst activity
- No side reactions
- Extended catalyst life
- Ready to use
- Faster unit start-up
- Shorter turnaround time
- No dusting during loading

For more information
www.uop.com

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