



Nickel Sulfur Guards Eurecat

The experts in catalyst sulfiding . . .
. . . Now also remove sulfur from your feeds!

Eurecat has Reactivated Nickel Catalysts available to protect your sensitive Reforming and Isomerization units.

Products

Eurecat has two grades of Sulfur Guard Catalysts: **EUS 175** and **EUS 135**
Both products offer the following benefits:

- High Activity due to the high Nickel Content
- High mechanical strength
- High affinity for all sulfur compounds. EUS 175 is especially effective for the removal of thiophenes.
- High sulfur pickup and long cycle length.

Services

Eurecat provides these services with each order of Nickel Sulfur Guard:

- Computerized model of the catalyst performance
- Loading diagram with loading instructions
- Recommendations for reactor unloading
- Reactivation of the spent catalyst into fresh sulfur guard if appropriate
- Assistance with metal recovery if the spent catalyst is not suitable for reactivation

Case Study

Design

Feed: Naphtha (HDS)
52000 BPSD
0.5 wt ppm (normal)
2.5 wt ppm (upset)

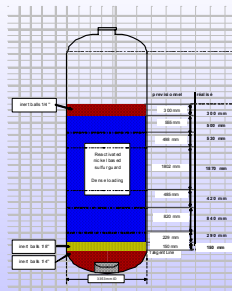
Sulfur: H₂S
mercaptans
sulfides
thiophenes

Reactor: 68 m³
3.05 m diameter
7.92 m height
"Downflow"

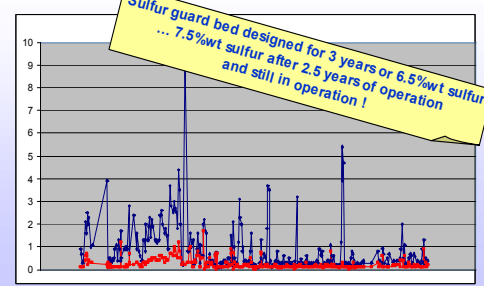
Conditions: 150°C, 7 bar

Max. expected life: 70% of available volume
48 months
S_{out} < 0.1 wt ppm (normal)
S_{out} < 0.7wt

Min. expected life: 36 months
S_{out} < 0.1 wt ppm (normal)
S_{out} < 6.5wt



Performance data



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