CATALYSTS

UOP RCY-525 Catalyst

UOP's next generation cyclic reforming catalyst for upgrading naphtha

Description

RCY-525 catalyst is UOP's next generation promoted platinum rhenium, high yield and stability, naphtha reforming catalyst used to produce high-octane, high-aromatic reformate and hydrogen.

Applications

RCY-525 catalyst is used in fixed-bed, cyclic reforming units to upgrade naphtha in the presence of hydrogen. RCY-525 catalyst can be loaded in units to produce motor fuel blending stocks for gasoline, BTX aromatics, or high-purity hydrogen for other refinery processes that consume hydrogen.

Experience

RCY-525 was commercialized in 2013 and is an extension of UOP R-500 catalyst that was commercialized in 2010.

Physical Properties

ABD (sock), lb/ft^3 (kg/m^3)	46.0 (737)
ABD (dense) lb/ft^3 (kg/m^3)	49.0 (785)
Diameter, inch (mm)	1/16 (1.6)
Shape	Trilobed
Metals	Platinum and Rhenium
Promoter	Proprietary

The catalyst can be supplied in either the oxidized or the reduced and sulfided form.

Safe Handling and Disposal

The handling, storage, transportation and disposal of RCY-525 catalyst is subject to governmental regulation, and you must manage RCY-525 catalyst safely and in accordance with all applicable requirements.

Packaging

- 55 U.S. gallon (210 liter) steel drums
- Net weight per drum 130 kilograms



UOP's new RCY-525 catalyst design combines stability and activity improvements to obtain higher yields and longer cycles for cyclic reforming units.

FEATURES & BENEFITS

RCY-525 catalyst has the following features and benefits to help maximize refining profits relative to other commercially available, cyclic reforming catalysts:

- Excellent catalyst activity
- Highest C_5^+ and H_2 yields
- Highest aromatics yields
- Better catalyst stability
- Extended cycle length
- Low rhenium content - lower fill cost

For more information
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