CATALYSTS

UOP R-284
CCR Platforming™ Catalyst

For use in continuous regeneration reforming units for upgrading naphtha

Description

UOP's R-284 catalyst is a promoted low platinum high density catalyst within UOP's R-200 series reforming catalysts used to produce high-octane reformate and hydrogen with increased yield, severity, and/or throughput.

Applications

R-284 catalyst is specifically designed for use in continuous regeneration reforming applications and is an excellent catalyst at all operating pressures. Continuous regeneration reforming units such as the CCR Platforming™ process uses a moving bed of spherical catalyst to convert low-quality naphtha, in the presence of hydrogen, into motor fuel blending stocks for gasoline, BTX aromatics, and high-purity hydrogen for other refinery processes that consume hydrogen.

Experience

Since R-284 catalyst was introduced in 2010, several loads have been sold. R-284 catalyst is an extension of UOP's R-260 catalyst series that was commercialized in 2004 with more than 70 loads sold.

Physical Properties

Circulating ABD, lb/ft^3 (kg/m^3)	40.0 (641)
Static ABD, lb/ft^3 (kg/m^3)	41.8 (670)
Nominal diameter, inch (mm)	1/16 (1.6)
Shape	Sphere
Metals	Contains Platinum

R-284 series catalyst can be supplied in oxidized or reduced form directly from UOP. Reduced catalyst will provide the fastest start-up and on-spec production.



R-284 provides the highest aromatic, reformate, and hydrogen yields while also allowing for maximum throughput.

FEATURES & BENEFITS

The high-density R-284 catalyst allows for increased capacity through the reactor circuit when the unit is limited due to reactor pinning constraints with lower density catalysts. At higher feedrates, the catalyst can be held up against the reactor centerpipe (pinned) and cause flow distribution problems.

R-284 catalyst also includes the following features and benefits:

- Maximum C_5^+, aromatics, and hydrogen yields
- Low coke make from optimized metals content and unique base formulation
- High yield stability over life of catalyst from robust formulation
- Long catalyst life from high strength base and high chloride retention
- Fast delivery from multiple UOP manufacturing locations worldwide including U.S., Europe and Asia

Safe Handling and Disposal

The handling, storage, transportation and disposal of R-284 catalyst is subject to governmental regulation, and you must manage R-284 catalyst safely and in accordance with all applicable requirements.

Packaging

- 55 U.S. gallon (210 liter) steel drums
- Net weight per drum: 125 kilograms

For more information
www.uop.com

UOP LLC, A Honeywell Company
25 East Algonquin Road
Des Plaines, IL 60017-5017, U.S.A.
www.uop.com

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