Honeywell | UOP Catalysts

UOP R-254
CCR Platforming™ Catalyst

For use in continuous regeneration reforming units for upgrading naphtha

Description

UOP R-254 catalyst is a low platinum and low density catalyst used to produce high-octane reformate and hydrogen or aromatics and hydrogen. R-254 catalyst also contains a promoter that enables it to deliver superior yields.

Application

R-254 catalyst is specifically designed for use in continuous regeneration reforming applications 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-254 catalyst was commercialized in 2010, more than 20 loads have been sold. R-254 catalyst is an extension of UOP's proven R-234 catalyst with over 140 loads sold since it's introduction.

Physical Properties

Circulating ABD, lb/ft^3 (kg/m^3)	33.5 (537)
Static ABD, lb/ft^3 (kg/m^3)	35.0 (561)
Nominal diameter, mm	1/16 (1.6)
Shape	Sphere
Metals	Contains Platinum

R-254 catalyst can be supplied in the oxidized or reduced form directly from UOP. Reduced catalyst will provide the fastest start-up and on-spec production. R-254 is also available in lower platinum version.

Safe Handling and Disposal

The handling, storage, transportation and disposal of R-254 catalyst is subject to governmental regulation, and you must manage R-254 catalyst safely and in accordance with all applicable requirements.



R-254 delivers superior yields while sustaining required throughput and octane requirements.

Packaging

- 55 U.S. gallon (210 liter) steel drums
- Net weight per drum 110 kilograms

FEATURES & BENEFITS

R-254 catalyst includes the following features and benefits to help maximize refinery profits relative to other commercially-available, continuous-regeneration reforming catalyst:

- Excellent C_5^+ yields for motor fuel applications
- Excellent aromatics yields for BTX applications
- Excellent hydrogen yields
- High activity to maintain required feed rate and octane target
- 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

For more information
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