

CATALYSTS

UOP R-364 CCR Platforming™ Catalyst

For use in continuous regeneration reforming units for upgrading naphtha

Description

UOP R-364 catalyst is the next generation low platinum high density catalyst used to produce high-octane reformate and hydrogen or aromatics and hydrogen with increased yield and throughput.

R-364 catalyst has improved metal and acid functions resulting in improved activity, higher yield, and lower coke compared to R-264 catalyst. R-364 provides flexibility in operation being able to operate in two different modes, high-activity or high-yield.

Application

R-364 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

R-364 is UOP's latest generation high density catalyst introduced in 2016. The new product builds on the success of UOP's proven R-264 catalyst with over 100 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-364 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.

For more information

www.uop.com

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R-364 catalyst is an excellent catalyst option to help debottleneck your reforming unit to increase reformate and/or aromatics production.

Safe Handling and Disposal

The handling, storage, transportation and disposal of R-364 catalyst is subject to governmental regulation, and you must manage R-364 catalyst safely and in accordance with all applicable requirements.

FEATURES & BENEFITS

R-364 catalyst includes the following features and benefits to help maximize refinery profits:

- Excellent activity to maintain required feed rate and octane target
- Excellent C₅⁺ yields for motor fuel applications
- Excellent aromatics yields for BTX applications
- Excellent hydrogen yields
- Low coke make from specific 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