Honeywell | UOP Catalysts

UOP I-122 Butamer™ Catalyst

Chlorided alumina C_4 isomerization catalyst
for producing an *iso*-butane rich feed source

Description

I-122 Butamer catalyst is a high activity, butane and light paraffin isomerization catalyst. It is an amorphous, chlorided alumina type catalyst containing platinum. I-122 Butamer catalyst is a robust product for maximizing isobutane.

Application

I-122 Butamer catalyst is optimized for use in the UOP Butamer process. In this service, the catalyst selectively converts normal butane to isobutane for use in applications such as motor fuel alkylation. I-122 catalyst can also function well in the UOP Penex™ process with feedstocks containing a low level of benzene and C_6^+ cyclic hydrocarbons. The catalyst selectively converts normal butane, pentane, and hexane to higher octane branched hydrocarbons. In addition to isomerization of paraffins, I-122 Butamer catalyst also saturates benzene. The catalyst is designed to operate over a wide range of reaction conditions to maximize isomerization and minimize hydrocracking.

Experience

I-122 Butamer catalyst is an extension of UOP's industry leading isomerization catalyst technology and has been in commercial operation since 2006 with more than 100 loads sold. UOP isomerization catalysts have demonstrated very long lives relative to other commercially available chlorided alumina catalysts.

Physical Properties

ABD (sock), lb/ft³ (kg/m³)	49.0 (785)
ABD (dense), lb/ft³ (kg/m³)	52.1 (835)
Nominal diameter, inch (mm)	1/16 (1.6)
Shape	Trilobed Extrudate
Metals	Platinum

Safe Handling and Disposal

The handling, storage, transportation and disposal of I-84 Penex catalyst is subject to governmental regulation, and you must manage it safely and in accordance with all applicable requirements.

For more information
www.uop.com

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UOP I-122 Butamer catalyst is a commercially proven catalyst with more than 100 loads sold. UOP I-122 Butamer catalyst has superior activity and excellent resistance to water and other contaminants.

Packaging

- 55 U.S. gallon (210 liter) steel drums
- Net weight per drum 150 kilograms

FEATURES & BENEFITS

- High activity and conversion to iso-paraffins
- Capability of processing C_4, C_5, and C_6 feeds with a low level of benzene and C_6^+ cyclic hydrocarbon content
- Volumetric yields typically exceed 99 LV-%
- High contaminant tolerance for C_4 isomerization service
- Formulation based on UOP I-82 Penex catalyst support but with lower Pt content
- Low reactor total fill cost due to reduced platinum content. UOP I-124 Butamer catalyst with additional platinum savings is also available for selected feeds (consult with UOP)
- Catalyst is certified by performance testing