

UOP MTO-100 CATALYST

UOP's new Methanol To Olefins catalyst

MTO-100 Catalyst has superior light olefins yield and very low selectivity to coke formation. It has a balanced activity to achieve high conversion without sacrificing olefin yield.

Description

MTO-100 Catalyst is used in the UOP/Hydro Methanol to Olefins (MTO) Process Unit. The catalyst shape is microspherical with a proprietary molecular sieve to maximize the conversion of coal-based or natural gas-based methanol into olefins with high yields of ethylene and propylene.

Application

MTO-100 Catalyst is designed for use in fluidized bed reactors and is tailored to optimize performance of the UOP/Hydro MTO Process Unit.

Features and benefits

- Superior light olefins yields
- Exceptionally low selectivity to coke
- High stability
- High attrition resistance
- Balanced activity to achieve high conversion without sacrificing light olefin yields
- Optimized to minimize catalyst losses and to achieve excellent fluidized bed hydrodynamics
- Minimizes oxygenate byproducts
- Produces a highly linear and olefinic C₄⁺ byproduct stream that is easily upgraded to additional light olefins using the Total Petrochemicals/UOP Olefin Cracking Process (OCP).

Experience

An MTO demonstration unit using MTO-100 has been successfully operating in Europe since 2009 at expected conversion and selectivity. The first commercial UOP/Hydro MTO Process Unit is scheduled to start up in 2013.

Packaging

- 1.5 m³ (53 ft³) lined supersacks
- Net weight per sack is 1000 kg (2205 lbs)
- Drums are available upon request

For more information

For more information on UOP MTO-100 Catalyst or other UOP adsorbents and catalysts, please contact your UOP representative or visit us online at www.uop.com.

UOP LLC, A Honeywell Company

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

© 2012 UOP LLC. All rights reserved.
The information in this document should not be construed as a representation for which UOP assumes legal responsibility, or an authorization or recommendation to practice a patented invention without a license.
UOP 4507-42 August, 2012

Honeywell
UOP