

# UOP MTO-600 CATALYST

## The latest generation of UOP MTO catalyst

### Overview

UOP is launching MTO-600, an improved catalyst formulation that achieves at least 1% better MeOH consumption and lower coke yield than MTO-100. For customers, this new solution results in extra production every year.

For customers using UOP MTO technology, they face many headwinds including negative feed-product spread, fluctuating C<sub>2</sub>/C<sub>3</sub> prices, separation system plugging which is caused by yellow grease formation, and e-cat disposal challenges. MTO-600 is an ideal solution for customers seeking a better catalyst for improving performance and OpEx, including MeOH consumption and production expansion.

### 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.

### Success stories

UOP is promoting MTO performance solutions to improve performance and OpEx. In the performance solution package, UOP offers a series of value-added components, such as OCP revamp, stability revamp, DME recovery, Connected Service, and a carbon neutral solution. With the performance solution offering, we can help customers improve methanol consumption by optimizing catalyst makeup rate and production expansion, while saving energy, reducing pollution and reducing CO<sub>2</sub> emission.

UOP has signed a Performance Solution Agreement with two customers. Each agreed to share 30% of the benefits from KPI improvement. UOP's latest generation catalyst helps customers save up to 1% methanol feed and targets to capture 30% of total feed saving value on an annual basis as a performance payment.

### Features & benefits

- Improves LO yield by 1%
- Lower attrition minimizes catalyst makeup rate, saves catalyst fill cost and avoids downstream plugging issues
- Reduces coke yield up to 10%, debottlenecking regenerator capacity
- Flexible P:E ratio between 0.8 - 1.7
- Reduces DME yield for improving downstream stability

### Packaging

- 1.5 m<sup>3</sup> (53 ft<sup>3</sup>) lined supersacks
- Net weight per sack is 1000 kg (2205 lbs)
- Drums are available upon request

### Safe handling and disposal

The handling, storage, transportation, and disposal of MTO catalyst are subject to government regulation. You must manage MTO catalyst safely and in accordance with all applicable requirements.

### 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](http://www.uop.com).

Property	Specification
Form	Microsphere
Nominal Diameter	70-80micron
Nominal ABD	850~1050 kg/m <sup>3</sup>

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