

# UOP BGB-300 PREACTIVATED AND PASSIVATED RENEWABLE CATALYST

UOP's de-metallization guard bed catalyst for renewable feedstock processing

UOP is dedicated to meeting the increased need for sustainable high-quality renewable diesel and aviation jet fuels. BGB-300 catalyst is utilized as part of a graded bed system. The catalyst ensures pressure drop mitigation and heat management. BGB-300 also provides high efficiency for removing trace metallic impurities, and superior hydrodeoxygenation selectivity, extending life cycle of downstream catalysts.

## APPLICATIONS

The Ecofining Process is jointly developed by UOP and Eni. It is a single or two-stage hydroprocessing technology for the production of renewable diesel and/or jet fuels. In the first stage, feedstocks such as vegetable oils and animal fats are hydrogenated to remove the oxygen contained in the triglyceride and/or free fatty acid molecules to produce paraffinic hydrocarbons. In the second stage the paraffins are then isomerized and/or selectively hydrocracked to produce renewable diesel or jet fuel.

## FEEDSTOCKS

UOP's BGB-300 catalyst can handle a variety of pretreated vegetable oils such as rapeseed, canola, soybean, palm, camelina, pennycress and jatropha, as well as used cooking oil and inedible corn oil. It can also process refined animal fats such as tallow.

## TYPICAL PHYSICAL PROPERTIES (NOMINAL)

Shape	Quadralobe Extrudate
Nominal diameter, mm	2.5
Expected bulk density	
Sock loaded, kg/m <sup>3</sup>	495
Dense loaded, kg/m <sup>3</sup>	561
Metals	Proprietary

## PACKAGING

- Super Sack, 900 kg net weight



## FEATURES AND BENEFITS

- UOP's bio-guard catalyst, BGB-300, is utilized as part of the UOP/Eni Ecofining™ Process and UOP Renewable Jet Fuel Process
- Removes contaminant metals derived from natural oils and animal fats
- Catalyst is preactivated to minimize start-up time and ensure high catalyst activity
- Reduces personnel exposure to sulfiding agents

## SAFE HANDLING AND DISPOSAL

Preactivated BGB-300 catalyst with passivation is classified as a self heating solid. It will heat up when exposed to circulating air. The handling, storage, transportation and disposal of BGB-300 catalyst is subject to governmental regulation, and you must manage BGB-300 catalyst safely and in accordance with all applicable requirements.

### For more information

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

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