

0.5% Pd / AS Escat 126

Escat 126

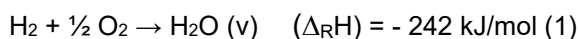
BASF Escat 126 is used for the removal of oxygen by reaction with hydrogen or the removal of hydrogen by reaction with oxygen (De-Oxo reaction).

General

Escat 126 is a catalyst in the form of spheres with a nominal diameter of 2.36 - 4 mm and with Palladium as active component. The lower surface alumina carrier has been carefully chosen for providing optimum activity and good temperature stability.

Product Application

Escat 126 is typically used for the conversion of hydrogen in the presence of oxygen or oxygen in the presence of hydrogen to form water (De-oxo reaction) according to the following chemical formula



This reaction can be applied in the production of pure hydrogen or pure oxygen or in the production of inert gases like N₂ or He.

Due to the high exotherm of reaction (1), proper instrumentation and safety measures always need to be put in place to assure full control of the reaction.

Typical reaction temperatures are in the range of 50 – 100°C / 120 – 210°F. The maximum allowable temperature is 500°C / 930°F.

Special Operations

Escat 126 might gain maximum activity via a short activation procedure. Before unloading, the material should be oxidized.

Poisons

As every Pd containing catalyst, Escat 126 is sensitive against Sulfur and its components. Heavy metal containing compound like AsH₃ can also have a detrimental effect on its performance. CO will have an impact on activity but might be compensated e.g. via temperature.

Storage

Escat 126 does not deteriorate or constitute any hazard when stored in sealed containers. The containers should not be allowed to become damp or wet and should not be stored in contact with organic or easily oxidizing vapors.

Target Properties

Chemical Composition (dry basis)	0.5 % wt./wt. Pd on special Alumina
---	--

Typical Physical Properties

Packed Bulk Density, g/ml	0.66
Total Surface Area (BET), m ² /g	90

Packaging

210 l steel drum with up to 120 kg net in PE in-liner

Points of Shipment

Rome, Italy

About Us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The group offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

BASF - We create chemistry

Americas

BASF Corporation
Phone: +1-732-205-5000
Email: catalysts-america@basf.com

Asia Pacific

BASF (China) Company Limited
Phone: +86-21-2039 2549
Email: catalysts-asia@basf.com

Europe, Middle East, Africa

BASF Services Europe GmbH
Phone: +49-30-20055000
Email: catalysts-europe@basf.com

Although all statements and information in this publication are believed to be accurate and reliable, they are presented gratis and for guidance only, and risks and liability for results obtained by use of the products or application of the suggestions described are assumed by the user. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH. Statements or suggestions concerning possible use of the products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that toxicity data and safety measures are indicated or that other measures may not be required. © 2015 BASF