PDH Catalyst Can Promote The Maximization Of Production In Petrochemical Applications

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: PDH catalyst
- Model Number: KMP-100

Product Specification

- Size: 1-3 Mm
- Product Type: Catalyst
- Catalyst Loading: 0.63 Kg/m3
- Bulk Density: 0.75-0.85 G/cm³
- Lifetime: 3-4 Years
- Operating Temperature: 300-500
- Application: Petrochemical Industry
- Pore Size: 0.5-0.7 Nm
- Type: Catalyst
- Pressure Drop: ≤ 0.1 MPa
- Shape: Spherical
- Catalytic Activity: High
- Crush Strength: > 150 N/cm

Product Description

Product Description:

The PDH Catalyst is a crucial component designed for the efficient operation of oleflex processes in the petrochemical industry. This catalyst is specifically engineered to enhance the performance and longevity of moving bed reactors used in the production of propylene through Propane Dehydrogenation (PDH) processes.
With a remarkable lifetime of 3 to 4 years, the PDH Catalyst offers long-term stability and reliability, ensuring consistent results over an extended period. This extended lifespan significantly reduces downtime and maintenance costs, making it a cost-effective solution for oleflex plants.
The PDH Catalyst boasts a bulk density of 0.62 g/cm3, providing excellent structural integrity and resistance to attrition within the reactor system. This optimal bulk density ensures uniform distribution and effective utilization of the catalyst throughout its operational life, contributing to enhanced performance and productivity.
Constructed from high-quality platinum material, the PDH Catalyst exhibits superior catalytic properties essential for the efficient conversion of propane into propylene. The platinum composition enables high catalytic activity and selectivity, resulting in improved process efficiency and propylene yield in oleflex operations.
With a catalyst loading of 0.63 kg/m3, the PDH Catalyst offers an ideal balance between catalyst concentration and bed utilization in moving bed reactors. This optimized loading ensures maximum contact between the catalyst and feedstock, promoting efficient propane dehydrogenation and propylene production in oleflex processes.
Moreover, the PDH Catalyst features a pore size of 20 nm, facilitating effective mass transfer and diffusion of reactants and products within the catalyst bed. The uniform pore structure enables rapid diffusion of molecules, enhancing reaction kinetics and overall process performance in oleflex units.
In summary, the PDH Catalyst is a high-performance catalyst tailored for oleflex applications, offering exceptional lifetime, bulk density, platinum material composition, catalyst loading, and pore size specifications. Its advanced design and superior characteristics make it an ideal choice for oleflex plants seeking to optimize propylene production efficiency and profitability.

Features:

Product Name: PDH Catalyst
Material: Platinum
Product Type: Catalyst
Lifetime: 3-4 Years
Pore Size: 20 Nm
Surface Area: 100 M2/g

Technical Parameters:

Attribute	Value
Shape	Pellet
Pore Size	20 Nm
Operating Temperature	550-650°C
Material	Platinum
Application	Petrochemical Industry
Product Type	Catalyst
Bulk Density	0.62 G/cm3
Surface Area	100 M2/g
Catalyst Loading	0.63 Kg/m3
Size	1.6 Mm

Applications:

The PDH Catalyst, model number KMP-100, is a high-quality catalyst product originating from China. With a size of 1.6 mm, this catalyst is specifically designed for use in the Oil column of PDH (Propane Dehydrogenation) plants.
The PDH Catalyst is ideal for a variety of application occasions and scenarios due to its exceptional performance attributes. With an operating temperature range of 550-650°C, this catalyst is well-suited for the high-temperature environment typically found in PDH processes. The Catalyst Loading of 0.63 Kg/m3 ensures efficient utilization and longevity of the catalyst in the PDH unit.
As a specialized catalyst designed for PDH applications, the PDH Catalyst is suitable for use in various stages of the propane dehydrogenation process. Whether it is in the cracking of propane to propylene or other reactions within the PDH unit, this catalyst plays a crucial role in enhancing the efficiency and yield of the overall process.
The PDH Catalyst boasts a long lifetime of 3-4 years, providing extended operational reliability and cost-effectiveness for PDH plant operators. Its robust design and superior performance make it a trusted choice for PDH units aiming for consistent and optimal production output.
In summary, the PDH Catalyst, with its outstanding characteristics and suitability for PDH applications, is the catalyst of choice for the Oil

column in PDH plants. Its reliable performance, long lifespan, and compatibility with high-temperature operations make it an essential component in ensuring the success and efficiency of propane dehydrogenation processes.

Customization:

Product Customization Services for the PDH Catalyst product:
Brand Name: PDH Catalyst
Model Number: KMP-100
Place of Origin: CHINA
Lifetime: 3-4 Years
Material: Platinum
Product Type: Catalyst
Application: Petrochemical Industry
Catalyst Loading: 0.63 Kg/m3

FAQ:

Q: What is the brand name of this product?
A: The brand name of this product is PDH catalyst.
Q: What is the model number of this product?
A: The model number of this product is KMP-100.
Q: Where is this product manufactured?
A: This product is manufactured in China.
Q: Is this product suitable for industrial use?
A: Yes, this PDH Catalyst model KMP-100 is designed for industrial use.
Q: Can this product be used in high-temperature environments?
A: Yes, the PDH Catalyst model KMP-100 is suitable for use in high-temperature environments.

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