



Alumina Or Silica-Alumina Support Material Content ≥ 90 Wt% C4/C5 For Industrial Applications

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: C4/C5 Hydrogenation Catalyst
- Model Number: KMH-04/05



Product Specification

- Operating Pressure: 1-10 MPa
- Surface Area: ≥ 150 M²/g
- Active Component Loading: ≥ 2 Wt%
- Pore Volume: ≥ 0.35 ML/g
- Support Material Content: ≥ 90 Wt%
- Active Component: Pd, Pt, Ni, Or Co
- Catalyst Lifespan: ≥ 3 Years
- Pore Diameter: 30-80 Å
- Highlight: **C4/C5 Selective Hydrogenation, C4-C5 Hydrogenation, Hydrogenation Catalysts for Ethylene Producers**

Product Description

Product Description:

The C4/C5 Hydrogenation Catalyst is a high-performance catalyst designed specifically for saturation hydrogenation applications, with a primary focus on butadiene removal. This catalyst is engineered to meet the demanding requirements of the petrochemical industry, providing exceptional performance and longevity.

Key Attributes:

Pore Diameter: 30-80 Å

Active Component Loading: ≥ 2 Wt%

Support Material Content: ≥ 90 Wt%

Bulk Density: 0.65-0.75 G/cm³

Catalyst Lifespan: ≥ 3 Years

The C4/C5 Hydrogenation Catalyst is specifically tailored to excel in the removal of butadiene through efficient saturation hydrogenation reactions. Its optimized pore diameter of 30-80 Å ensures enhanced mass transfer and accessibility to active sites, enabling superior catalytic performance. With an active component loading of at least 2 Wt%, this catalyst offers high catalytic activity and selectivity, making it ideal for industrial-scale applications.

One of the standout features of this catalyst is its high support material content of over 90 Wt%, providing excellent mechanical strength and thermal stability. This attribute contributes to the catalyst's longevity and resistance to deactivation, ensuring consistent performance over an extended operating lifespan. The bulk density range of 0.65-0.75 G/cm³ further enhances the catalyst's handling and distribution within the reactor, optimizing its efficiency in hydrogenation processes.

With a guaranteed lifespan of at least 3 years, the C4/C5 Hydrogenation Catalyst offers long-term reliability and cost-effectiveness for industrial operations. Its robust design and composition make it a dependable solution for continuous butadiene removal and other saturation hydrogenation applications, delivering consistent results over an extended period.

In conclusion, the C4/C5 Hydrogenation Catalyst is a top-tier catalyst engineered to meet the stringent requirements of the petrochemical industry, particularly in the realm of butadiene removal and saturation hydrogenation. Its superior attributes, including optimized pore diameter, high active component loading, substantial support material content, appropriate bulk density, and extended lifespan, make it a standout choice for companies seeking high-performance catalysts for critical hydrogenation processes.

Features:

Product Name: C4/C5 Hydrogenation Catalyst

Support Material: Alumina Or Silica-alumina

Pore Volume: ≥ 0.35 ML/g

Operating Pressure: 1-10 MPa

Support Material Content: ≥ 90 Wt%

Appearance: Gray Or Black Cylindrical Particles

Technical Parameters:

Surface Area	≥ 150 M ² /g
Support Material	Alumina Or Silica-alumina
Operating Temperature	150-250°C
Pore Diameter	30-80 Å
Catalyst Lifespan	≥ 3 Years
Bulk Density	0.65-0.75 G/cm ³
Active Component	Pd, Pt, Ni, Or Co
Pore Volume	≥ 0.35 ML/g
Appearance	Gray Or Black Cylindrical Particles
Active Component Loading	≥ 2 Wt%

Applications:

The C4/C5 Hydrogenation Catalyst, model number KMH-04/05, is a versatile product originating from China that is specifically designed for various hydrogenation applications. With a surface area of at least 150 M²/g and a pore diameter ranging from 30 to 80 Å, this catalyst is highly effective in promoting saturation hydrogenation reactions.

One of the key application scenarios for the C4/C5 Hydrogenation Catalyst is in the removal of butadiene from C4/C5 streams. Butadiene removal is crucial in the petrochemical industry to prevent downstream issues and ensure the quality of final products. The unique properties of this catalyst, such as its particle size of 1.5-3.0 mm and support materials like alumina or silica-alumina, make it ideal for this specific application.

Operating within a temperature range of 150-250°C, the C4/C5 Hydrogenation Catalyst exhibits excellent performance in catalyzing hydrogenation reactions while maintaining stability under varying conditions. Its ability to efficiently convert unsaturated hydrocarbons to their saturated counterparts makes it a valuable tool in industrial processes.

Whether used in batch processes or continuous flow systems, this catalyst delivers consistent results and ensures high conversion rates. Its reliability and effectiveness make it a preferred choice for refineries, petrochemical plants, and other facilities requiring precise control over hydrogenation processes.

In summary, the C4/C5 Hydrogenation Catalyst is a top-tier product that excels in saturation hydrogenation applications, particularly in the removal of butadiene from C4/C5 streams. Its superior surface area, pore diameter, support materials, and operating temperature range set it apart as a reliable and efficient catalyst for various industrial needs.

Customization:

Customize your C4/C5 Hydrogenation Catalyst (Model: KMH-04/05) with our product customization services.

Product Attributes:

- Brand Name: C4/C5 Hydrogenation Catalyst
- Model Number: KMH-04/05
- Place of Origin: CHINA
- Support Material: Alumina Or Silica-alumina
- Pore Diameter: 30-80 Å
- Hydrogenation Selectivity: $\geq 95\%$
- Bulk Density: 0.65-0.75 G/cm³
- Active Component Loading: ≥ 2 Wt%

Enhance your C4/C5 Hydrogenation Catalyst, known for its effectiveness in saturation hydrogenation reactions, with our customization options.

Packing and Shipping:

Product Name: C4/C5 Hydrogenation Catalyst

Description: Our C4/C5 Hydrogenation Catalyst is a high-quality catalyst designed for efficient hydrogenation processes.

Package Contents: 1 bottle of C4/C5 Hydrogenation Catalyst

Package Dimensions: 10 x 5 x 5 inches

Shipping Weight: 1 lb

Shipping Method: Standard Shipping

FAQ:

Q: What is the brand name of this hydrogenation catalyst?

A: The brand name is C4/C5 Hydrogenation Catalyst.

Q: What is the model number of this catalyst?

A: The model number is KMH-04/05.

Q: Where is this hydrogenation catalyst manufactured?

A: This catalyst is manufactured in China.

Q: What are the primary applications of the C4/C5 Hydrogenation Catalyst?

A: This catalyst is commonly used in the petrochemical industry for hydrogenation processes of C4 and C5 hydrocarbons.

Q: How does the C4/C5 Hydrogenation Catalyst contribute to the production process?

A: The catalyst helps to improve the selectivity and efficiency of hydrogenation reactions, leading to higher yields of desired products.



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