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The gasoline hydrogenation catalyst, as a palladium based catalyst, is used for first-stage hydrogenation of pyrolysis gasoline. In the form of a Φ 2.8-3.0mm trilobe extrudate, the P-90 new type gasoline hydrogenation catalyst provides hydrogenation stability, and excellent water-resistant, anti-arsenic, sulfur-tolerant properties.

Physical Properties

Item	P-80	P-90
Shape	Light brown trilobe extrudates	Light brown trilobe extrudates
Size (mm)	F2.8~3.0'3~15	F2.8~3.0'3~15
Bulk Density (g/ml)	0.60±0.05	0.65±0.05
Specific Surface Area (m ² /g)	90±20	100±20
Water Absorption (%)	Min. 70	Min. 60
Crushing Strength (N/cm)	Min. 40	Min. 60
Active Component (Pd)	Min. 0.27%	Min. 0.30%
Additive 1 (%)	0.8	1.1
Additive 2 (%)	0.8	1.2

The combination of support, active component and additive in P-90 enables the gasoline hydrogenation catalyst to offer excellent performance of pyrolysis gasoline hydrogenation. This hydrogenation catalyst features high chemical and thermal stability, low rate of carbon formation, and water, impurity and high load resistance.

Catalyst Use Claims

Operating Conditions of the Catalyst Process

Operating Pressure (MPa)	≥2.4
Inlet Temperature (°C)	Initial 30~50, end 90~110
Hydrogen to Oil Ratio (fresh feed) (V)	60~120
Space Velocity (fresh oil) (h-1)	≤3.5

Composition of Hydrogenation Raw Oil

1. Disposal Oil

Distillate	C6~ C8, C5~C9
Boiling Range (°C)	50~175
Diene Content (gI2/100g.oil)	≤35
Bromine Number(gBr2/100g.oil)	≤70
Arsenic Content(ppb)	≤20
Gum Content (mg/100ml)	≤10
Inorganic Sulfur Content (ppm)	≤3
Water Content(ppm)	≤400

2. Hydrogen

Purity (v %)	≥85
Methane	Balance
CO+CO ₂ (ppm)	≤5

3. Hydrogenation Product Index and Catalyst Lifetime

Hydrogenation Product Diene (gI2/100g oil)	≤2.5
Catalyst Guarantee Period	24 months
First Run Cycle	≥12 months

Chempack is an ISO9001:2000 certified, leading gasoline hydrogenation catalyst manufacturer, located in China. We provide an extensive line of chemical products, including oxygen removal, carbon monoxide removal, adsorbent, and more. With reliable performance, these products are increasingly popular with customers from the oil refining, fertilizer, gas purification, desulfurization and denitrification, environmental protection and petrochemical industries, both home and abroad. If you are in search of the chemical products, we encourage you to contact us and try our products. The staff at Chempack is sincerely looking forward to working with you.

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