

J-CHEM 145

CL-GUARD CATALYST

A high activity absorbent catalyst for feed purification such as H2-N2 mixture, synthesis gas and Naphtha etc.

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A. CATALYST DESCRIPTION

Designation *J-CHEM* 145

Form Grey-white extrudate

Size Ø5×5-20mm

B. TYPICAL CHEMNICAL COMPOSITION (%wt)

Calcium oxide >35
Zinc oxide >10
Aluminium Oxide >30

C. PHYSICAL PROPERTIES

Bulk density0.7-0.8 Kg/LSurface area $>35 \text{ m}^2/\text{g}$ Crush strength>7 KgPore volume>0.3 ml/gBreakthrough Cl capacity>30%

D. OPERATING CONDITIONS:

Bed height/diameter >4

Pressure: atmosphere~5.0Mpa

Space velocity: ≤3000 h⁻¹

Steam gas ratio: ≥0.4

Inlet Cl content ≤200 ppm Outlet Cl content ≤0.1 ppm



J-CHEM 147-1

CL-GUARD CATALYST

A high activity absorbent catalyst for feed purification such as H2, N2, synthesis gas, CCR process' by-product hydrogen and refinery gas at ambient and low-temp. Cl content of outlet will be less than 0.1PPM

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

B. CATALYST DESCRIPTION

Designation **J-CHEM** 147-1

Form Grey-white extrudate

Size Ø3×5-15mm

B. PHYSICAL PROPERTIES

Bulk density 0.6-0.8 Kg/LSurface area $>35 \text{ m}^2/\text{g}$ Crush strength >60 NBreakthrough Cl capacity >25%

C. OPERATING CONDITIONS:

Pressure: atmosphere~5.0Mpa

Temperature: $-4\sim60$ °C Space velocity: $500\sim3000 \text{ h}^{-1}$ Inlet CI content $1\sim1000\text{ppm}$ Outlet CI content $\leq 0.1 \text{ ppm}$

D. SALES RECORD

J-CHEM 147-1 has been widely used in catalystic reforming process in many big refineries in Sinopec group throughout China, such as Shanghai, Manming, Dalian and Dagang. It was also proved to have good performance by Taiwan clients.



J-CHEM 192

CL-GUARD CATALYST

A high activity adsorbent catalyst for feed purification of HCl.

Cl content of outlet will be less than 0.1PPM

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

C. CATALYST DESCRIPTION

Designation **J-CHEM** 192

Form Spheres Size Ø3-5mm

B. CHEMICAL COMPOSITION (wt%)

Na2O >6

Al2O3 balance

C. PHYSICAL PROPERTIES

Bulk density $0.75\pm0.05 \text{ Kg/L}$

Surface area $>170 \text{ m}^2/\text{g}$ Crush strength >50 N

D. OPERATING CONDITIONS:

Pressure: atmosphere~3.4Mpa

Temperature: \sim 400 °C

Space velocity: $500\sim5000 \text{ h}^{-1}$ Inlet CI content $1\sim1000\text{ppm}$ Outlet CI content $\leq 0.1 \text{ ppm}$