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## [Hydrotreating Catalyst](#)

### Hydrotreating Catalyst

The HC-40 hydrotreating catalyst is a nickel based catalyst used in hydrogenation dearomatization (HDA) of aviation kerosene. The catalyst has countless applications to benzene hydrogenation for cyclohexane production, phenol hydrogenation for cyclohexanol production, hydrorefining of industrial crude hexane, and organic hydrogenation of unsaturated aliphatic hydrocarbons and aromatic hydrocarbons, such as white oil and lube oil hydrogenation. The hydrotreating catalyst is in the shape of a  $\Phi 1.8\text{mm}$  black cylinder.

#### Physical Properties

Item	Index	Item	Index
Appearance	Black cylinder	Bulk Density (kg/L)	0.80-0.90
Particle Size (mm)	$\phi 1.8 \times 3-15$	Surface Area ( $\text{m}^2/\text{g}$ )	80-180
Chemical Components	$\text{NiO-Al}_2\text{O}_3$	Crushing Strength (N/cm)	Min. 50

#### Activity Index

Process Conditions	System Pressure (MPa)	Hydrogen Nitrogen Space Velocity ( $\text{hr}^{-1}$ )	Temperature ( $^{\circ}\text{C}$ )	Phenol Space Velocity ( $\text{hr}^{-1}$ )	Hydrogen Phenol Ratio (mol/mol)
	Normal Pressure	1500	140	0.2	20
Activity Level	Feedstock: phenol, the conversion of phenol, min. 96%				

Packing: Shrink wrap the hydrotreating catalyst in 200L steel drums lined with plastic bags, with 3 or 4 drums per pallet.

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