



### Hydrogenation Catalyst, CoMo Catalyst:

With alumina as carrier, nickel as main active component, the catalyst is Widely used in aviation kerosene to hydrogenation dearomatization, benzene hydrogenation to cyclohexane, phenol hydrogenation to cyclohexanol hydrotreating, hydrofining of industrial crude hexane, and organic hydrogenation of unsaturated aliphatic hydro-carbons and aromatic hydrocarbons, such as white oil, lube oil hydrogenation. It can also be used for liquid phase efficient desulfurization, and sulfur protective agent in catalytic reforming process. The catalyst has high strength,excellent activity, in the hydrogenation refining process, which can make aromatic or unsaturated hydrocarbon down to ppm level. The catalyst is reduced state which is stabilizing treatment.

By comparison, the catalyst which has been used successfully in dozens of plants in a world, is better than similar domestic products.

#### Physical and chemical properties:

Item	Index	Item	Index
Appearance	black cylinder	Bulk density ,kg/L	0.80-0.90
Particle size,mm	Φ1.8×-3-15	Surface area,m <sup>2</sup> /g	80-180
Chemical components	NiO-Al <sub>2</sub> O <sub>3</sub>	Crushing strength ,N/cm ≥	50

#### Activity evaluation conditions:

Process Conditions	System pressure	Hydrogen Nitrogen	Temperature	Phenol space velocity	Hydrogen phenol ratio
	Mpa	space velocity hr-1	°C	hr-1	mol/mol
	Normal pressure	1500	140	0.2	20
Activity Level	Feedstock: phenol, the conversion of phenol min 96%				