

Hydrotreating Catalyst

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The WMN-10 hydrotreating catalyst, which is a tungsten(W), molybdenum(Mo) and nickel(Ni) based catalyst, is suitable for hydrotreating poor gasoline and diesel from secondary process. The NiMoW hydrotreating catalyst is especially used to hydrotreat a variety of FCC diesel and coked diesel to obtain high quality diesel oil with low sulfur and low aromatics.

Physical Properties

Item	Standard	Item	Standard
Appearance	Trilobe extrudates	WO ₃ (wt %)	17-21
Particle Size (mm)	Φ1.6*5-15	MoO ₃ (wt %)	8-10
Crushing Strength (N/cm)	Min.150	NiO (wt %)	3.5-5.5
Surface Area (m ² /g)	Min.120	Packing Density (kg/L)	0.80 to 0.85
Pore Volume (ml/g)	Min. 0.25		

Activity Index

Process Parameters	Hydrogen Partial Pressure (MPa)	Temperature (°C)	Space velocity (hr ⁻¹)	Hydrogen to Oil Ratio (V/V)
	6.0	360	2.0	800
Raw Material	Daqing coked diesel			
Processed Oil	Removal of basic nitrogen, min. 90%			

Operating Conditions

Process Parameters	Hydrogen Partial Pressure (MPa)	Inlet Reaction Temperature (°C)	Space Velocity (hr ⁻¹)	Hydrogen to Oil Ratio (V/V)
FCC Diesel of Xinjiang, Shenli and Guanshu Oil	3.0-6.0	260-300	1.0-2.0	400-600
FCC Diesel of Guanshu Oil Blended with Residue Oil	3.0-6.0	270-310	1.0-2.0	400-600
Daqing Coked Diesel	3.0-6.0	280-320	1.0-2.0	500-800
Shenli Coked Diesel	6.0	290-330	1.0-1.5	600-800

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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