Floriated Catalyst

1. Product Description

It is suggested the user choose different kinds of environmental catalysts with different porous diameter and number of pores based on the kind, content and size of impurity in the raw material. Also it can also used to prevent carbonaceous sediment, coking and poisoning by loaded with active elements as Mo, Ni, Co according to user's special requirements.

Its application in reforming, hydrogen-adding, hydrogen-making, coking gas, diesel oil hydrogen refining devices in petrochemical industry shows it can filter and remove the impurities effectively, effectively prolong the service life of catalyst, and the running hours of the device. It can increase the flow area of the oil, thus make the system pressure drop below 0.1Mpa and its capacity increase by 26.5%, mixing ratio of catalytic diesel oil up to 37%-40%.

2. Chemical and physical properties:

Item \ Model	LH-I-1	LH-II-1	LH-III-1
Chemical compositon.%	Al_2O_3: 30-90		
Water absorption，%	<3		
Porous diameter，μm	0.5-35	40-100	110-1000
Porous radi，%	30-40	25-35	20-30
Penetrability m^3.cm/m^2.h.10Pa	0.2-0.8	1-6	7-30
Anti-acid，%	≥98	≥98	≥97
Anti-alkali，%	≥85	≥85	≥82
Spalling resistancee，TC	-20-800	-20-800	-20-800
Crushing strength，N/pc	100-20000 Depending on specification and size		
Bulk density，g/cm^3	1.1-1.3		

3. Chemical and physical properties:

Item \ Model	LH-I-2	LH-ll-2	LH-III-2
Appearance	Yellowish	Light yellow	Light gray
Bulk density (g/mL)	1.2-1.3	1.1-1.2	1.1-1.25
Specific Pore Volume (ml/g)	0.5-0.6		
Spalling resistancee（T C）	-2-500	-2-600	-2-600
Crushing strength (N/pc)	250-3500 Depending on specification and size		
Al_2O_3 content，%	≥65	≥45	≥45
Fe_2O_3 content，%	<0.4	<0.5	<0.5
Active composition	$NiO \cdot MoO_3$	$NiO \cdot WO_3$	$CoO \cdot MoO_3$

4. Size

Size (mm)	∅6x4	∅8x6	∅10x7	∅13x9	∅16x12	∅20x15	∅25x18	∅35x20
Hole Diameter (mm)	1.2	1.5	2.0	2.5	3.0	4.0	5.0	6.0
Concave diameter (mm)	1.5±0.5	2.0±0.5	2.5±0.5	2.5±0.5	13.0±0.5	4.0±0.5	5.0±0.5	6.0±0.5
Number of grooves	3	3	3	5	5	5	5	5