J-CHEM 4A

Molecular Sieve

4A. Molecular Sieve is mainly used to adsorb water, methanol, ethanol, sulfureted hydrogen, carbon dioxide, ethylene, propylene, does not adsorb any larger molecular than 4A, and often used as desiccant in industrials.

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

A. CATALYST DESCRIPTION

Designation ***J-CHEM*** 4A

Formula $Na_2O{\cdot}Al_2O_3{\cdot}2.0SiO_2{\cdot}4.5H_2O$

B. TYPICAL PROPERTIES

Item	Unit	Shape			
Shape		Pellet		Sphere	
Diameter	mm	1.5-1.7	3.0-3.3	1.7-2.5	3.0-5.0
Size ratio to grade	%	≥98	≥98	≥96	≥96
Bulk density	g/ml	≥0.60	≥0.60	≥0.60	≥0.60
Wear ratio	%	≤0.20	≤0.25	≤0.20	≤0.20
Crushing strength	N	≥30	≥45	≥60	≥70
H2O adsorption	%	≥20.5	≥20.5	≥20.5	≥20.5
Methane adsorption	%	≥16	≥16	≥16	≥16
Water	%	≤1.5	≤1.5	≤1.5	≤1.5

J-CHEM 4A-DG

Molecular Sieve

4A. Molecular Sieve is mainly used to adsorb water, methanol, ethanol, sulfureted hydrogen, carbon dioxide, ethylene, propylene, does not adsorb any larger molecular than 4A, and often used as desiccant in industrials.

TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

C. CATALYST DESCRIPTION

Designation	***J-CHEM*** 4A-DG
Form	Extrudate
Size	1/16",1/8"

B. PHYSICAL PROPERTIES as for 1/16" extrudate

Diameter	1.5-1.7 mm
Bulk density	≥ 0.70 Kg/L
Abrasion rate	≤ 0.2 %
Crush strength	≥ 3.5kg
CO2 capacity	≤ 1.5 %
H2O capacity	≥ 20.5 %
575 ℃ Loss of ignition	≤ 1.5%