

Type 5A Molecular Sieve

$\text{Ca}_{4.5}\text{Na}_3[(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot X \text{H}_2\text{O}$ —Molecular Sieve Type 5A, the calcium form of the Type A crystal structure, is an alkali metal alumino-silicate. Available in powder and pellets for separating normal paraffins from branched-chain and cyclic hydrocarbons through a selective adsorption process.

Typical Physical Properties

	Powder	1/16" Pellets	1/8" Pellets
Nominal Pore Diameter (angstroms)	5	5	5
Particle Diameter *(mm)	—	1.6	3.2
Particle Size (microns)	<10	—	—
Bulk Density (lb/ft ³)	32	44	44
Heat of Adsorption (Btu/lb H ₂ O)	—	1800	1800
Crush Strength (lbs)	N/A	6	12
Equilibrium H ₂ O Capacity ** (wt-%)	26	21.5	21.5
Moisture Content (wt-%)	1.5	1	1

* The length of the pellets is approximately twice the diameter.

** Measured at 17.5 mm Hg and 25°C

Part No.	Quantity	Form
MS-1179	1/2 lb.	Powder
MS-1180	1/2 lb.—Case of 6	
MS-1181	2 lb.	
MS-1182	2 lb.—Case of 4	
MS-1183	12 lb.	
MS-1184	30 lb.	
MS-1192	1 lb.	1/16" Pellets
MS-1193	1 lb.—Case of 6	
MS-1194	5 lb.	
MS-1195	5 lb.—Case of 4	
MS-1196	25 lb.	
MS-1198	50 lb.	

Part No.	Quantity	Form
MS-1206	1 lb.	1/8" Pellets
MS-1207	1 lb.—Case of 6	
MS-1208	5 lb.	
MS-1209	5 lb.—Case of 4	
MS-1210	25 lb.	
MS-1212	50 lb.	
Type 5A Molecular Sieves are available packaged in 55-gallon drums - Contact Advanced Specialty Gas Equipment for price and availability.		

Safety and Handling

See the UOP brochure entitled "Molecular Sieve Safety Bulletin for Manufacturers", or contact your Advanced representative.

For More Information

For additional information, see MATERIAL SAFETY DATA SHEET (MSDS) for this material listed on the Advanced website; www.asge-online.com or contact your Advanced representative.