

ADSORBENTS

Molecular Sieve and Synthetic Zeolite

Over 110 adsorbent products: 3A to 13X sieves, ZSM-5 and NaY powders, air separation and hydrogen purification grades, activated alumina.

Overview

This is an adsorbent range of more than 110 products covering molecular sieve, synthetic zeolite powder, activated zeolite powder and activated alumina. It spans the standard 3A, 4A, 5A and 13X types, speciality zeolite powders including ZSM-5 and NaY, and application-specific series for oxygen enrichment, cryogenic air separation and hydrogen purification.

Published annual capacity is 41,000 tons of synthetic zeolite powder, 42,000 tons of molecular sieve plus 12,000 tons in Thailand, and 5,000 tons of activated alumina.

Typical Data

Property	Value
Product count	Over 110 products
Synthetic zeolite powder capacity	41,000 tons per year
Molecular sieve capacity	42,000 tons per year
Molecular sieve capacity, Jalon Thailand	12,000 tons per year
Activated alumina capacity	5,000 tons per year

Published Grades

Family	Types	Typical duty
Synthetic Zeolite Powder	3A, 4A, 5A, 13X	General drying and adsorption duties
Synthetic Zeolite Powder	NaLSX, MSX, LiLSX, CaX, CaLSX, nm-A, nm-X	Speciality adsorption and gas separation
Synthetic Zeolite Powder	ZSM-5	Catalyst and speciality applications
Synthetic Zeolite Powder	NaY	Catalyst and speciality applications
Molecular Sieve	3A, 4A, 5A, 13X	General drying and purification
Molecular Sieve	JLOX series	Oxygen enrichment
Molecular Sieve	JLPM series	Cryogenic air separation units
Molecular Sieve	JLPH series	Hydrogen purification
Activated Alumina	JLAA	General adsorption and drying
Activated Alumina	JLAZ series	Cryogenic air separation units
Activated Alumina	JLAA-HN	High sodium grade

Use Guide

- Start from the duty, not the type number: oxygen enrichment points to JLOX, cryogenic air separation to JLPM and JLAZ, hydrogen purification to JLPH.
- For general drying, 3A, 4A, 5A and 13X cover most cases and are stocked as both bead and powder.
- Send the gas composition, operating pressure, temperature and cycle time by email and a grade recommendation with the matching data sheet will come back.
- Bead size, packing and lot quantity are confirmed per order.

Applications

- Oxygen enrichment with the JLOX series
- Cryogenic air separation units with the JLPM sieve and JLAZ alumina series
- Hydrogen purification with the JLPH series
- Drying and purification duties using 3A, 4A, 5A and 13X
- Catalyst and speciality applications using ZSM-5 and NaY powder

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