

NS6130-12-001463

ZSM-5 MOLECULAR Sieve

Quick Facts

Product	:	ZSM-5 Molecular Sieve
Stock No	:	NS6130-12-001463
Purity	:	99.9%
Form	:	Beads

Technical Specification

SSA	APS
330-400m ² /g	<10µm

A molecular sieve is a material with pores (very small holes) of uniform size. These pore diameters are similar in size to small molecules, and thus large molecules cannot enter or be adsorbed, while smaller molecules can. Some molecular sieves are used in chromatography, a separation technique that sorts molecules based on their size. Other molecular sieves are used as desiccants (some examples include activated charcoal and silica gel). Molecular sieves are used for a wide range of catalytic applications.

ZSM-5 molecular sieve boasts unique and exceptional properties, which are widely employed in important processes and applications across a broad range of industries. ZSM-5, Zeolite Socony Mobil-5 (framework type MFI from ZSM-5 (five)), is an aluminosilicate zeolite belonging to the pentasil family of zeolites. Its chemical formula is $\text{NaAlSi}_9\text{6-nO}_{192}\cdot 16\text{H}_2\text{O}$ ($0 < n < 27$). It is widely used in the petroleum industry as a heterogeneous catalyst for hydrocarbon isomerization reactions.



* This image is for graphic purposes only and does not represent the actual product.

