

Zeolites

In addition to the natural zeolite (43628, Zeolite, naturally occurring mineral), Alfa Aesar has released a series of new zeolite products, including Zeolite Y, Zeolite ZSM-5, Zeolite β , Zeolite Mordenite and Zeolite Ferrierite. A varieties of sizes, including S.A. (400 m²/g~925m²/g) and SiO₂:Al₂O₃ (5.1:1~360:1) are available. A summary of zeolites available is listed below. For a full listing of product details, please contact your local Alfa Aesar sales office.

Zeolite Y

Zeolite Y is used as a cracking catalyst in petroleum refinery catalytic cracking units to convert high-boiling fractions of petroleum crude to more valuable gasoline, diesel and other products.

Item	Description	S.A.	SiO ₂ :Al ₂ O ₃	Sizes
45862	Zeolite Y, sodium	900m ² /g	5.1:1	25g, 100g, 500g
45863	Zeolite Y, ammonium	925m ² /g	5.1:1	25g, 100g, 500g
45866	Zeolite Y, hydrogen	730m ² /g	5.1:1	25g, 100g, 500g
45867	Zeolite Y, ammonium	750m ² /g	5.2:1	25g, 100g, 500g
45868	Zeolite Y, hydrogen	660m ² /g	5.2:1	25g, 100g, 500g
45869	Zeolite Y, ammonium	730m ² /g	12:1	25g, 100g, 500g
45870	Zeolite Y, hydrogen	780m ² /g	30:1	25g, 100g, 500g
45871	Zeolite Y, hydrogen	720m ² /g	60:1	25g, 100g, 500g
45872	Zeolite Y, hydrogen	780m ² /g	80:1	25g, 100g, 500g

Zeolite ZSM-5

Zeolite ZSM-5 is used in hydrocarbon isomerization and the alkylation of hydrocarbons, and as a catalyst support.

Item	Description	S.A.	SiO ₂ :Al ₂ O ₃	Sizes
45879	Zeolite ZSM-5, ammonium	425m ² /g	23:1	25g, 100g, 500g
45880	Zeolite ZSM-5, ammonium	400m ² /g	30:1	25g, 100g, 500g
45881	Zeolite ZSM-5, ammonium	425m ² /g	50:1	25g, 100g, 500g
45882	Zeolite ZSM-5, ammonium	425m ² /g	80:1	25g, 100g, 500g
45883	Zeolite ZSM-5, ammonium	400m ² /g	200-400:1	25g, 100g, 500g

Zeolite β

Zeolite β is used in isomerization of waxes, and Friedel Crafts reactions (alkylation and acylation).

Item	Description	S.A.	SiO ₂ :Al ₂ O ₃	Sizes
45873	Zeolite β , ammonium	680m ² /g	25:1	25g, 100g, 500g
45874	Zeolite β , ammonium	710m ² /g	38:1	25g, 100g, 500g
45875	Zeolite β , hydrogen	620m ² /g	360:1	25g, 100g, 500g

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Zeolite Ferrierite

Zeolite Ferrierite is used in commercial filters, ion-exchange beds, and as a catalyst for the acid-catalyzed isomerization of n-butenes to isobutene.

Item	Description	S.A.	SiO ₂ :Al ₂ O ₃	Sizes
45884	Zeolite ferrierite, ammonium	400m ² /g	20:1	25g, 100g, 500g

Zeolite Mordenite

Zeolite mordenite is used for the acid-catalyzed isomerization of alkanes and aromatics.

Item	Description	S.A.	SiO ₂ :Al ₂ O ₃	Sizes
45876	Zeolite mordenite, sodium	425m ² /g	13:1	25g, 100g, 500g
45877	Zeolite mordenite, ammonium	500m ² /g	20:1	25g, 100g, 500g
45878	Zeolite mordenite, hydrogen	500m ² /g	90:1	25g, 100g, 500g