



# ZEOBRITE®

## GRANULES FOR WATER FILTRATION AND ION EXCHANGE OF AMMONIUM

### SPECIFICATIONS

#### PRODUCT DESCRIPTION:

**Zeobrite®** granules consist of a high-surface area, aluminosilicate mineral with a cation exchange capacity in excess of 100 meq./100g. The granules are dry and free flowing. **Zeobrite®** is sold in several granule sizes depending upon the application.

#### PHYSICAL PROPERTIES:

Bulk Density	0.66 g/cc, 50 lbs./cu. ft. dry weight
Particle Size	0.5 to 1.5 mm (other sizes available)
Engineering Properties	$d_{10} = 0.55$ , $d_{60} = 0.90$ , UC = 1.6
Color	off-white
Pore Volume	38 per cent (approx.)
Surface Area	14 to 25 m <sup>2</sup> /g
Ion Exchange Capacity	100 meq. / 100 g.
Abrasion, ASTM C-131	20, grading C, 500 revolutions
Crushing Strength	2,500 lbs./in. <sup>3</sup>

#### KEY PROPERTIES:

**Zeobrite®** granules have a high-surface area and large internal void space for effective filtration of silt and colloidal particles. The loading capacity of contaminants on **Zeobrite®** is much larger than silica sand, anthracite and other sub-rounded or non-porous media. Ion-exchange capacity is measured by the Ammonium Acetate Saturation method. The exchange capacity in natural waters depends upon the levels of competing ions. It is important to thoroughly backwash the media granules before beginning filtration or ion exchange applications.

#### PRINCIPLE USES:

**Zeobrite®** granules are used in water filtration applications from potable systems to industrial wastewater to cooling tower water to swimming pools. For ion exchange they are used to remove ammonia and/or heavy metal cations from polluted water streams with low suspended solids.

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