

P.V.P. Industries Inc.

P.O. box 129, 9819 Penniman Road
N. Bloomfield, Ohio 44450
Toll Free- 1-800-255-4801, Local- 1-440-685-4701, Fax- 1-440-685-4709
www.pvpind.com

Request for detailed description on how perlite is acquired and expanded by P.V.P. Industries Inc.

P.V.P. Industries Inc. acquires our perlite (ore) from the mines worldwide. Most horticultural perlite is sourced from Greece and the United States. The perlite is purchased in its raw form as ore that is sized and graded for purchase. This material is shipped to us by ocean freight, rail and truckload. Where again we screen to our desired size for manufacture (expansion).

Expansion consists of heating the ore to displace the trapped water within the particles and packaged for horticultural, industrial and construction uses. P.V.P. Industries Inc. **DOES NOT** add any emulsifiers, wetting agents, fertilizers or the like. The only change in the chemical structure of the raw ore to expanded perlite is H₂O being displaced into Oxygen.

Below you will see an excerpt from the Perlite Institute describing the expansion process-

“This expansion is due to the presence of two to six percent combined water in the crude perlite rock. When quickly heated to above 1600°F (871°C), the crude rock pops in a manner similar to popcorn as the combined water vaporizes and creates countless tiny bubbles which account for the amazing light weight and other exceptional physical properties of expanded perlite. The expansion process also creates one of perlite's most distinguishing characteristics: its white color. While the crude rock may range from transparent light gray to glossy black, the color of expanded perlite ranges from snowy white to grayish white. Expanded perlite can be manufactured to weigh as little as 2 pounds per cubic foot (32 kg/m³) making it adaptable for numerous applications.”

“Since perlite is a form of natural glass, it is classified as chemically inert and has a pH of approximately 7.”

http://www.perlite.org/product_guides/1%20Basic%20Facts%20about%20Perlite.pdf

Any further processing information is proprietary and will not be disclosed.

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