

## FILTRATION AIDS

# Perlite

### Description

Perlite is a hydrated, naturally-occurring volcanic rock. Its unique structure consists of numerous concentric layers, similar to the layers in an onion. Its natural color ranges from light pearl gray to dark gray. The distinguishing feature which sets perlite apart from other volcanic siliceous rocks is that when heated above 1600°F, it expands up to 20 times its original size. The expansion is due to the presence of water (nearly 5%) trapped in the crude ore. When processed at proper temperature, the crude ore “pops” in a manner similar to popcorn. During the material processing, the combined water vaporizes, creating countless tiny bubbles that account for the amazing light weight and other exceptional properties of perlite.

### Properties

Perlite filter aids are available in a full range of grades with specific permeabilities which produce varying degrees of clarification. The products are functionally similar to DE filter aids; however, they typically have bulk densities about half that of DE. Perlite is used to filter juices, water, beverages, and industrial chemicals. It is produced from inert silicate minerals and meet the purity requirements of many applications, except those requiring the highest degree of clarification (such as polishing).

### Use

Filtration/Clarification

### Dosage and Addition

Consult with your ATPGroup representative to select the proper grades for the medium to be filtered and to determine dose rates.

### Storage and Shelf Life

Store in a cool dry place to maintain packaging integrity and product quality. See SDS for more details.

### Packaging

25–35 lb depending on grade