

# Volcano Girls™ Shaped Pumice Stones

## THE PUMICE

### CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES

**Chemical Name:** Amorphous Aluminum Silicate

#### TYPICAL ANALYSIS

- Silicon Dioxide: 76.2%
- Aluminum Oxide: 13.5%
- Ferric Oxide: 1.1%
- Ferrous Oxide: 0.1%
- Sodium Oxide: 1.6%
- Potassium Oxide: 1.8%
- Calcium Oxide: 0.8%
- Titanium Oxide: 0.2%
- Magnesium Oxide: .05%
- Moisture: <1.0%
- Crystalline SiO<sub>2</sub>: None Detected

#### GENERAL PROPERTIES

- Appearance: White powder
- Hardness (MOHS): 6
- pH: 7.2
- Radioactivity: None
- Softening Point: 900 degrees C
- Water Soluble Substances: 0.15%
- Loss on Ignition - 5%
- GE Brightness: 84
- Specific Gravity: 2.4
- Reactivity: Inert  
(except in the presence of calcium hydroxide or hydrofluoric acid)

## THE BINDER

### CHEMICAL INFORMATION

**Chemical Name:** Sodium Silicate Solution

#### COMPOSITION

- Silicic Acid, Sodium Salt: 37.5%
- Water: 62.5%

#### GENERAL PROPERTIES

- Odor: None
- pH: Alkaline (11-12)
- Freezing Point: N/A
- Melting Point: N/A
- Boiling Point: 100°C
- Soluble: In liquid form, in water

## DESCRIPTION

Amorphous (non-crystalline) in structure and composed primarily of aluminum silicate, pumice is a naturally calcined volcanic glass foam consisting of highly vesicular strands permeated with tiny air bubbles. It is these frothy, friable glass vesicles that, when carefully refined to various grades, give pumice its unique and infinitely useful qualities.

Volcano Girls shaped pumice stones are made from the world's purest commercial deposit of white pumice, sourced from Hess Pumice in southeast Idaho, USA. Stones are formed under pressure using a water-based Sodium Silicate compound (less than 1%) as a binder, then heat dried.

## SAFETY DATA

Pumice is abrasive and can irritate sensitive skin. Keep out of eyes and avoid breathing pumice dust. If inhaled, remove to fresh air. Flush eyes with copious amounts of clean water to remove irritant. Do not ingest.

Sodium Silicate may irritate eyes and skin. Flush with clean water to remove. Do not ingest.

