PROLEX Industrial Perlites - Non-Milled

Structure

Uses

Ryolex is our brand of expanded perlites we refer to as macroparticles. These coarser particles are produced by heating crushed perlite between 1600° and 1800°F, causing the particles to expand 4 to 20 times due to the vaporizing of water in the rock. This expansion accounts for Ryolex's light weight and other exceptional physical properties.

We make Ryolex in both non-milled and milled forms. To learn about Milled Ryolex, see Milled Ryolex PDF.

Ryolex uses range from multiple insulation applications that are easy and effective to lightweight cat litter that is extremely absorbent.

Perlite is an inorganic, naturally occurring mineral that does not decay or decompose. We apply non-flammable water repellent treatment to certain Ryolex grades, which significantly improves the water-repellent properties of perlite.

The many applications of non-milled Ryolex include:

- Lightweight fillers
- Fireblock
- Cat litter
- Chimney lining
- Ceiling tiles
- Plaster aggregate
- Lightweight concrete
- Refractory applications
- Various types of insulation

Once exposed to rapid. controlled heating, the expanded perlite takes on a foam-like structure of microscopic glass bubbles that contain a multi-cellular core. These clusters of glass bubbles have many unique qualities that offer great advantages in industrial uses. In addition to being lightweight, Ryolex is non-toxic, non-combustible, naturally insulating, and can safely be used over a wide range of temperatures.

Standard Chemical Analysis

SiO₂ Silicon Dioxide 73% Al₂O₃ Aluminum Oxide 17% K₂O Potassium Oxide 5% Na₂O Sodium Oxide 3% CaO Calcium Oxide 1% Trace Elements 1%

Physical Properties

Hygroscopic Moisture 0% Surface pH 6.5-7.5 Color White Fusion Point (°F) 2300 Fusion Point (°C) 1260 MASONPRO, Inc. 43300 Seven Mile Road Northville, MI 48167 1-800-659-4731 www.masonpro.com

- Significant energy savings when used in concrete masonry
- Increases R-Value
- Decreases U-Value
- Shrink and/or crack resistance as a filler
- Non-carcinogenic
- Efficient, low-density insulator
- Non-toxic

Perlite Benefits

- Non-combustible
- All-natural mineral

Trace Elements	Manganese	<0.3%
	Sulfur	<0.2%
	Titanium	<0.1%
	Barium	<0.1%
	Gallium	<0.05%
	Boron	<0.01%
	Chromium	<0.0075%
	Zirconium	<0.003%
	Molybdenum	<0.002%
	Nickel	<0.002%
	Copper	<0.0015%
	Lead	<0.001%*
	Arsenic	<0.001%*
	Chlorine	<0.0005%

All analyses are shown in elemental form even though the actual forms present are mixed glassy silicates. Free Silica may be present in small amounts, characteristic of the particular ore body.

*By Food Chemicals Codex Method

For details on Ryolex for insulation, see Industrial Perlites for Insulation PDF.



For more information or to arrange for samples, please call: 800-323-4287 or email: info@silbrico.com





