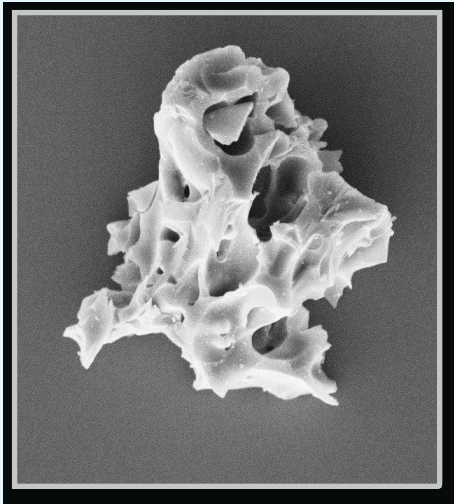


PERLFLOW™

PERLITE FILTERAIDS

FAST FLOW... SUPER CLARITY...



A NATURAL AID TO INDUSTRIAL FILTRATION

The Unique structure of Perlite Filteraid material creates many interlocking particles. A Perlite Filter cake consists of 80% to 90% void space capable of screening out particles of less than 1 micron size.

Perlite, in its natural state, is a volcanic mineral which contains several percent of combined water. When crushed and heated under proper conditions, it pops like "POPCORN", expanding to twenty or more times of its original volume. Today, Perlite Filteraids are produced from plants around the world and are being marketed on an ever-expanding basis to meet the demands of industry throughout the free world. Marketed under the Brand Name **PERLFLOW™**.

PERLITE CHEMICAL CHARACTERISTICS

Perlite is an amorphous volcanic mineral. Solubility of PERLFLOW™ Perlite Filteraid is extremely low in inorganic and organic acids at both high and low temperature. Solubility in alkali depends upon the kind of alkali, the concentration, time & temperature of contact. Perlite Filteraid is processed in the temperature range of 815⁰ C to 1000⁰ C. pH of a 10% suspension is in the range 6.5 to 8.5.

PERLITE PHYSICAL CHARACTERISTICS

Color	White
Specific Gravity	2.34
Apparent Density	
Dry Loose Density Kg/Cu. M	64 to 176
Dry Tamped Density Kg/Cu. M	208 to 320
Organic Matter	Nil
Hygroscopicity	Nil
Wettability:	Easily dispersible in aqueous or non-aqueous liquids.

AVAILABLE IN FULL RANGE OF GRADES

Grade	Flow Ratio	Maximum Filter Cake Density (Kg/m ³)	Mean Particle Size (Microns)
PERLFLOW™ 434	300	260	6.0
PERLFLOW™ 474	650	240	8.0
PERLFLOW™ 4104	900	240	10.0
PERLFLOW™ 4154	1325	210	15.0
PERLFLOW™ 4254	1700 approx.	180	18.0 Approx.
PERLFLOW™ 4354	2100 approx.	160	22.0 Approx.

NOTE: Selection of Correct grade of **PERLFLOW™** to be used depends on the nature of liquid, solid impurities to be filtered and type of filter equipment to be used.

Particle Size is directly related to filteraid performance. More permeable filteraid has larger average particle size. Extremely close control maintains the highest available clarity at maximum flowrate.

Filter Cake Density: Perlite Filteraids form lower density cakes than Diatomite Filteraid of comparable permeabilities.

PERLFLOW™ Filteraid have wide range of apparent densities. Heavier density filteraid, 224-304 Kg/Cu. M are most effective for pressure filtration and as Body Feed. Those with cake densities in the range of 160-224 Kg/Cu. M are most effective on Rotary Vacuum Drum Filters.

Densities of **PERLFLOW™** filteraid are controlled at level found to be optimum for the most effective performance.

PERLFLOW™ products make substantial saving in Filtration costs.

CLARITY: **PERLFLOW™** Filteraid can filter out particles of less than 1.0 micron size. This highest clarity is obtained with low permeability grades. As with Diatomite filteraid, the relative clarifying efficiency is inversely related to the flowrate.

PERLFLOW™ Perlite Filteraid are used as:

- **PRECOAT** - The liquid to be filtered is allowed to flow through a cake of Filteraid.
- **BODY FEED** - Filteraid itself is added to the liquid to be filtered.

PERLFLOW™ Perlite Filteraid is used on various kind of filter equipment like:

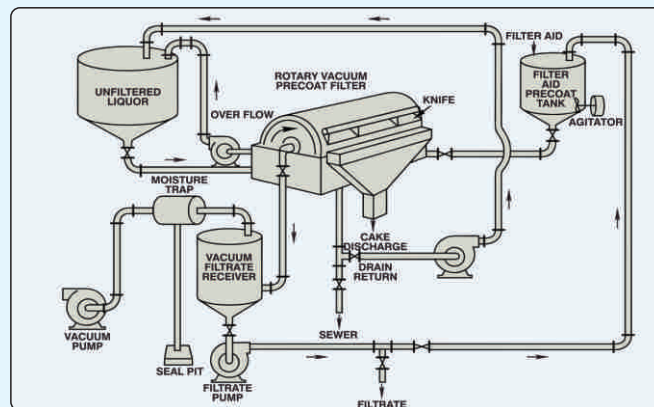
- Rotary Vacuum Drum Filter (R.V.D.F.)
- Vertical Tank Filter
- Pressure Leaf Filter (P.L.F.)
- Filter Press
- Tube or Candle Filter
- Horizontal Tank – Rotating Leaf Filter.

PERLFLOW™ Perlite Filteraid is excellent for use in both Pressure and Vacuum Filter Equipment. A selection criterion of Filter Equipment depends up on:

- 1) Type of application.
- 2) Type and nature of liquid to be filtered.
- 3) Quantity and the level of solid impurities to be filtered.

Industries regularly using our PERLFLOW™ Perlite Filteraid.

- Resins
- Dyes
- Vegetable oils
- Starch base industries
- Refined sugar
- Dextrose/ Glucose
- Paints & Coatings
- Chemicals
- Pharmaceuticals
- Fruit juices
- Edible lactose
- Soft Drinks



Advantage of PERLFLOW™ Perlite Filteraid:

Cost Advantage: Due to light weight (20-50% density advantage), user can realize substantial saving in filtration operations with a better Filteraid at less cost.

Non – Hazardous Waste: It is not a hazardous waste and can be easily disposed off.

Less Equip. Abrasion: **PERLFLOW™** exclusive processing system removes grit from the Filteraids thus making it as pure as possible. This also ensures longer life of filter equipment.

Easy Cake release: **PERLFLOW™** provides easy cake release at the end of filtration cycle.

Increase Productivity: Easy cleaning of Filter equipment thereby reducing Man-power and enhanced productivity.



Manufactured By :
AMOL MINECHEM LIMITED

401, AKSHAY, 53, Shrimali Society, Navrangpura, Ahmedabad – 380 009, INDIA.

Ph : 079 – 40246246, E mail : info@amolminechem.com Web : www.amolminechem.com

