

Provosil®

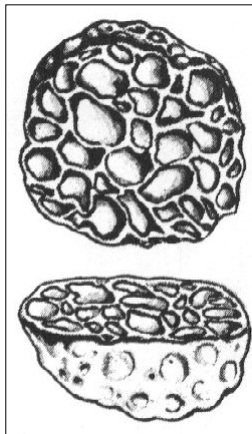
Industrial Uses

A premium PERLITE product by
REDCO II

PRODUCT
INFORMATION
BULLETIN

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This pure white inorganic material is a PROcessed VOlcanic SILicate with countless closed-cell voids formed by expansion under intense heat. PROVOSIL expanded perlite is low in density; it can be produced in weights below 2 lbs./cu.ft. It is low in thermal conductivity, and low in cost because of its high bulking characteristics. PROVOSIL may be used throughout a temperature range of minus 400° F to plus 2,000° F without significant change of properties.



This enlarged view of a cross-section of a particle of Provosil shows the internal cell structure and irregular surface having tiny cavities or pores. The closed cellular particles resist penetration, yet substantial moisture may be held on the exterior surface.

In typical industrial applications, Provosil fillers provide some or all of the following benefits:

- Significant Cost Reduction
- Weight Reduction
- Density Control
- Excellent Insulation

On the reverse side, various applications and application notes are listed.



Purpose	Application	Comments
Filler, Extender, and Bulking Agent	Textured paints; molded plastics (resins); coatings; paper and paper board; rubber; caulking compounds; mineral wool.	Where Provosil satisfies physical requirements, its use as a filler/extender results in cost savings and decreased density. For additional data on Provosil as a filler for resins, see special Technical Bulletin.
Flatting Agent	Paints; coatings.	Provosil is used to replace sand in textured paints. Results are decreased cost and reduced settlement.
Absorbent	Floor sweep; oil and gas.	Provosil, mixed with small quantities of other ingredients makes an excellent absorbent sweeping compound, especially effective in oil or grease spillage.
Insulation	Granular loose fill for cryogenic vessels; covering for molten metals; for refractory blocks and bricks used in boilers, incinerators, annealings, forging, heat treating and smelting furnaces. Foundry core, molding, and facing sands.	Provosil has extremely low thermal conductivity and is unaffected by temperatures from minus 400° F to plus 2000° F. Provosil provides greater permeability of venting gases and better blow-ability with sticky core ends; reduces expansion defects and subsequent rejects.
Abrasive	Cleaners, polishes, soaps, grinding wheels, discs.	Provosil's porosity, resistance to disintegration and lightweight allow for cooler, safer abrasion. It minimizes centrifugal forces tending to rupture high speed grinding wheels.
Shipping	Protective loose fill packing for fragile instruments, glassware, etc. Fireproof packing for highly combustible items. Protective fill when shipping acids, or other dangerous chemicals.	Provosil's lightweight, low cost, and ease of handling make it an effective fill for packing.
Chemical Carrier	Herbicides, fungicides, insecticides, fertilizers, and other horticultural uses.	Various perlite products may also be used as an anti-caking agents and carriers for agricultural and horticultural uses. Please ask for literature on our Horti-Perl products.

