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POLYDROS, S.A.

With more than 50 years of experience in the sector, POLYDROS, S.A. has been established as a leading international company in the field of Cellular Glass Pumice Stone. Since founded in 1961, POLYDROS, S.A. has developed alternative products to the natural pumice stone, used increasingly less for ecological reasons, maintaining its chemical composition (silica-glass 100%) and providing them with technical characteristics superior to those of the existing articles in the market.

Given its manufacture condition, POLYDROS, S.A. can intervene in the different processes until reaching the desired quality, size, colour and finish for the products, with the aim of adapting to each company’s needs and their different brands.

POLYDROS, S.A. currently has more than 30 employees and includes among its installations a 2,000m2 manufacturing plant and offices in the industrial area of Alcobendas (Madrid), as well as a handling plant for the packaging machinery and another 2,000m2 storage warehouse, from which shipping is carried out to clients over the world.

QUALITY CONTROL

POLYDROS, S.A. has established several controls in the manufacture of its products with the aim to guarantee maximum quality and the best service to its clients. Aware of this need for controls, the products are tested in independent laboratories, in order to confirm the results obtained in its own quality control department. POLYDROS, S.A. has implemented a rigorous quality assurance system under the regulation UNE-EN-ISO-9001.

ECOLOGY AND ENVIRONMENT

POLYDROS, S.A. only uses glass as raw material, to which no resins, plastics nor compounds derived from petroleum are added, and uses non-contaminent energies for the manufacture of its products, which have been classified by laboratories, approved by the Ministry of Health and Consumer Affairs, as devoid of eco-toxins and without harmful effects on living organisms.
THE SILIGLASS CELLULAR GLASS PUMICE STONES HAVE BEEN CLASSIFIED AS BACTERIOSTATIC, DEVOID OF ECO-TOXINS AND WITHOUT HARMFUL EFFECTS ON LIVING ORGANISMS, ACCORDING TO TESTS CARRIED OUT IN LABORATORIES APPROVED BY THE MINISTRY OF HEALTH AND CONSUMER AFFAIRS.
POLYDROS CELLULAR GLASS

POLYDROS's cellular glass is obtained from the fusion of glass powder, in which, through a thermic process at high temperatures, cells isolated from each other are created. Its organic composition prevents the proliferation of bacteria, fungi and micro-organisms that survive in them.

**COMPARATIVE TABLE**

<table>
<thead>
<tr>
<th>Material</th>
<th>Resistance against the diffusion of water vapour</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR</td>
<td>1,0</td>
</tr>
<tr>
<td>NATURAL PUMICE STONE</td>
<td>1,3</td>
</tr>
<tr>
<td>EXPANDED PLASTIC</td>
<td>30,0</td>
</tr>
<tr>
<td>CELLULAR CONCRETE</td>
<td>40,0</td>
</tr>
<tr>
<td>POLYDROS CELLULAR GLASS</td>
<td>85,000,0</td>
</tr>
</tbody>
</table>

Thanks to this manufacturing process exclusive to Polydros, S.A., a totally inert material is obtained, with a chemical composition similar to the natural pumice stone and a uniform abrasiveness which guarantees total safety of use and maximum efficiency in the treatment of hard skin.
The POLYDROS’s cellular glass pumice stones are light, aseptic and odourless and have been especially designed to remove by abrasion hard skin and callouses on feet and hands without causing irritations. One of the main characteristics of the POLYDROS’s pumice stones is that, thanks to its inorganic composition (100% cellular glass) and the non-absorption of liquids, the bacteria, fungi and microorganisms cannot survive on the surface nor can they penetrate the product, avoiding any possible infections. The POLYDROS’s cellular glass pumice stones have been tested in laboratories approved by the Ministry of Health and Consumer Affairs, which has written up different reports confirming the following characteristics:

- Bacteriostatic
- Non irritant
- Weak sensitising effect
- Devoid of eco-toxicity
- No harmful effects on living organisms

### GENERAL PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESISTANCE TO HUMIDITY</td>
<td>Total</td>
</tr>
<tr>
<td>RESISTANCE TO BACTERIA</td>
<td>They do not survive</td>
</tr>
<tr>
<td>RESISTANCE TO FUNGI</td>
<td>They do not survive</td>
</tr>
<tr>
<td>CHEMICAL RESISTANCE</td>
<td>Complete</td>
</tr>
<tr>
<td>PUTRESCIBILITY</td>
<td>Imputrescible</td>
</tr>
</tbody>
</table>
CERTIFICATES

1. Acute skin Tolerance/ Irritation
   RESULT: According to the evaluations carried out and the IIP obtained for the product, this is classified as NON irritating.

2. Inducement to sensitising
   RESULT: In accordance with the number of answers obtained in the guinea pig the product has: a degree of sensitising I and is classified as being SLIGHTLY SENSITISING

3. Acute oral toxicity
   RESULT: In accordance with the results obtained the product has a toxicity between: 2000 mg / Kg < DL50 < 5000 mg/kg
   They are classified in category 5 in GHS.

4. Acute toxicity in fish
   RESULT: The results obtained for the product at a dose of 100 mg/L according to the test limit, it is classified as Devoid of Eco-toxicity, without any harmful effect on living systems.

5. Verification of the survival of micro-organisms.
   RESULT: According to the different counts the initial strains of micro-organisms do not survive and rapidly disappear from the product.

OBSERVATIONS:
The POLYDROS cellular glass pumice stones have been dermatologically tested and classified as hypoallergenic and non irritating, but they should not be used on wounds or irritated areas of skin. People with diabetes or with poor blood circulation should consult their doctor or chiropodist before using them.
THE SILIGLASS CELLULAR GLASS PUMICE STONES HAVE BEEN CLASSIFIED AS WEAK SENSITISING, ACCORDING TO TESTS CARRIED OUT IN LABORATORIES APPROVED BY THE MINISTRY OF HEALTH AND CONSUMER AFFAIRS.
USES AND PROPERTIES

The SILIGLASS cellular glass pumice stones have a cell structure of open pores in order to remove rapidly and with complete safety the hard skin and callouses on feet and hands, preventing the proliferation of dead cells and returning the skin to its natural aspect and softness.

They are used damp and with soap, rubbing lightly on the affected area of skin. After use, it is recommended to rinse the product to remove residue and to leave it to dry naturally.

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>TYPE OF PORE</th>
<th>Open</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD SIZE</td>
<td>100 x 50 mm.</td>
</tr>
<tr>
<td>THICKNESS</td>
<td>20 mm.</td>
</tr>
<tr>
<td>CUT TOLERANCE</td>
<td>± 1 mm</td>
</tr>
</tbody>
</table>

They are made in different sizes and shapes (rectangular, oval, squared and round) and which can also be designed by the customer.

They are available in different colour combinations that can be adapted to the corporate colours of each company.
STANDARD MODELS

Ref.: 100 000
Ref.: 101 000
Ref.: 100 200
Ref.: 101 200
Ref.: 100 900
Ref.: 101 900
THE SILIGLASS CELLULAR GLASS PUMICE STONES HAVE BEEN CLASSIFIED AS NON IRRITATING AND BACTERIOSTATIC, ACCORDING TO TESTS CARRIED OUT IN LABORATORIES APPROVED BY THE MINISTRY OF HEALTH AND CONSUMER AFFAIRS.
USES AND PROPERTIES

The SILIGLASS DOUBLE ACTION cellular glass pumice stones have a mixed cellular structure of open and closed pores, which allows rapid and complete safe removal of hard skin and callouses on feet and hands using the coloured side, and smoothen or treats delicate areas (ankles, elbows, knees, etc) with the white side, preventing the proliferation of dead cells and returning the skin to its natural aspect and softness. They are generally used damp and with soap, rubbing lightly over the affected area of skin. After use, it is recommended to rinse the product to remove any residue and to leave it to dry naturally. They are made in different sizes and in rectangular, oval and round shapes.

<table>
<thead>
<tr>
<th>TYPE OF PORE</th>
<th>Closed and open</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD SIZE</td>
<td>100 x 50 mm.</td>
</tr>
<tr>
<td>THICKNESS</td>
<td>20 mm.</td>
</tr>
<tr>
<td>CUT TOLERANCE</td>
<td>± 1 mm</td>
</tr>
</tbody>
</table>

They are available in different colour combinations that can be adapted to the corporate colours of each company.
STANDARD MODELS

Ref.: 300 000

Ref.: 300 200

Ref.: 300 900

Ref.: 301 000

Ref.: 301 200

Ref.: 301 900
WITH THE AIM OF MAKING THE PRODUCTS MORE ERGONOMIC, FUNCTIONAL, ATTRACTIVE AND EASY TO USE, SEVERAL ACCESSORIES HAVE BEEN INCORPORATED THAT SUGGEST AN ADDED VALUE TO THE SILIGLASS PUMICE STONES.
STANDARD MODELS

Ref.: 103 102

Ref.: 301 212
THE DIVERSITY OF COLOURS TOGETHER WITH THE DIFFERENT FINISHES AND SHAPES AVAILABLE OFFER THE CUSTOMER THE POSSIBILITY TO PERSONALISE THEIR PRODUCT TO ITS FULL, WHILST THE OPTION OF PACKAGING AT THE FACTORY LOWERS COSTS AND AVOIDS THE COMPLICATIONS THAT ARE ALWAYS PART OF THE LAUNCHING OF NEW PRODUCTS.
The SILIGLASS pumice stones are made in different colours, to be adapted to the corporate colours of each company.

<table>
<thead>
<tr>
<th>Colour Combination</th>
<th>Ref. Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>White / Grey</td>
<td>B000C / G427U</td>
</tr>
<tr>
<td>White / Yellow</td>
<td>B000C / A607U</td>
</tr>
<tr>
<td>White / Green</td>
<td>B000C / V580U</td>
</tr>
<tr>
<td>White / Blue</td>
<td>B000C / Z545U</td>
</tr>
<tr>
<td>White / Pink</td>
<td>B000C / R502U</td>
</tr>
<tr>
<td>White / Turquoise</td>
<td>B000C / T628U</td>
</tr>
<tr>
<td>White / Soft Orange</td>
<td>B000C / N712U</td>
</tr>
<tr>
<td>White / Lavender</td>
<td>B000C / L664U</td>
</tr>
</tbody>
</table>
FINISHES AND FORMATS

The optional finishes provide each product with an added value appreciated by the customers.

The chamfered and rounded edges avoid contact between the corners and the skin.

FORMATS

Square
Round
Rectangular
Oval
Chamfered
PACKAGING

The SILIGLASS pumice stones can be supplied in bulk or packaged individually with our own brand or with the client’s brand depending on the different options available.

The different individual packages can be grouped together, according to each customer's needs.
THE ASPECT OF THE VULCAN STONES IS EXACTLY THE SAME AS NATURAL PUMICE STONES, WITH SOFT COLORS AND ROUNDED FORMS.
USES AND PROPERTIES

Vulcan pumice stones have natural aspect and more porous structure, although homogeneous, that allows the elimination of hard skin, without irritation and with total safety. Vulcan removes hard skin and calluses on feet and hands, returning skin to its natural aspect and softness.

The aspect and composition of Vulcan is similar to the natural pumice stone.

PROPERTIES

- Bacteriostatic
- Non irritant
- Weak sensitising effect
- Devoid of Eco-toxins
- No harmful effects on living organisms
- Natural aspect

They are generally used damp and with soap, rubbing lightly on the affected area of the skin.

After use, it is recommended to rinse the product to remove any residue and to leave it to dry naturally.

<table>
<thead>
<tr>
<th>PHYSICAL CHARACTERISTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE OF PORE</td>
</tr>
<tr>
<td>LARGE STANDARD SIZE</td>
</tr>
<tr>
<td>SMALL STANDARD SIZE</td>
</tr>
<tr>
<td>CUT TOLERANCE</td>
</tr>
</tbody>
</table>
VULCAN - STANDARD MODELS

Ref.: 101 800  
Colour: Grey Stone

Ref.: 101 800  
Colour: Terracotta brown

Display box  
Standard packaging
All the products of this catalogue have been manufactured in Spain by POLYDROS, S.A.
vulcan
siliglass

www.polydros.es/siliglass

POLYDROS, S.A.
Since 1961

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