ImerCare® P-Scrub
a natural volcanic rock alternative to PE beads

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Agenda

- Imerys Sustainability video
- Introduction to Imerys Group and ImerCare®
- ImerCare® P-Scrub, a natural volcanic rock alternative to PE beads
Imerys video
Imerys Group: Key 2016 figures

- **€4.16Bn** Revenue
- **€582M** Current operating income
- **14.0%** Operating margin
- **16,000** Employees
- **250** Operating sites
- **50** Countries
- **8** R&D centers
- **#1 or #2** On most of our markets
- **+ 90** New products

FTSE4Good

EURONEXT

MSCI

2015 Constituent MSCI Global Sustainability Indexes
Imerys is present in 50 countries with 250 facilities

Consolidated revenue* by geographic area

Energy Solutions & Speciallites
- Carbonates
- Monolithic Refractories
- Graphite & Carbon
- Oilfield Solutions

Filtration & Performance Additives
- Performance & Filtration Minerals
- Kaolins

Ceramic Materials
- Minerals for Ceramics
- Building Materials

High Resistance Minerals
- Fused Minerals
- Refractory Minerals

* 2015 revenue by destination
Multiple attributes, myriad applications
New product development and applications

- Advanced in-house expertise in all customer applications ensures new developments are market relevant.

- Experts at our Toulouse and San José laboratories:
  - improve value-of-use of our minerals in current applications
  - develop more sophisticated grades for current applications
  - research completely new applications
Imerys minerals for cosmetics

- **Functional natural mineral solutions for cosmetics**

- **World’s leading mineral company:**
  - Highly diversified mineral portfolio for cosmetics
  - Owning deposits to extract best performance
  - Having dedicated innovative technology and a regulatory team for cosmetics

- **ImerCare® global network:**
  - Global Imerys market interface in all regions
  - Global Imerys/ImerCare® distribution network
  - Global Imerys supply chain network
Mineral for cosmetics

+ 30 other minerals within Imerys
ImerCare® P-Scrub

a natural volcanic rock alternative to PE beads
P-SCRUB

A new, gentle volcanic rock-based exfoliant for scrub applications

- Gentle exfoliation in face and body scrubs
- Eco-friendly solution
- Boosts anti-dandruff shampoo performance
Due to the negative impact of polyethylene beads on marine life and the environment, cosmetics producers are seeking to replace them in scrub applications.

ImerCare® P-Scrub is a natural perlite range of products developed as an environmentally-friendly alternative to PE beads for face and body scrubs.
ImerCare® P-Scrub perlite combines the hardness of volcanic rock with the softness of spherical particles for a gentle exfoliation effect.

ImerCare® P-Scrub range is produced using patented technology.
Perlite is made from a volcanic glass which contains water in its inner structure. When heated, the water trapped within the structure is vaporised, causing the material to expand and form a bubble structure.

Imerys process to produce ImerCare® P-Scrub

Perlite rock  Mechanical process  Thermal Process  ImerCare® P-Scrub  Exfoliant
Unlike plastic microbeads which slip through water filter systems polluting streams and rivers, natural ImerCare® perlite beads float and can be easily skimmed off. As a natural volcanic rock, any perlite beads that do slip through are harmless to marine life.
Given the difference in apparent density between ImerCare® P-Scrub (≈ 0.6) and plastic microbeads (≈ 1), for the same scrub intensity, the amount of ImerCare® P-Scrub required in the formulation can be halved compared to plastic microbeads.
The shower gel containing ImerCare® 400 P-Scrub demonstrated better exfoliation efficiency than the one containing PE Beads formulated at constant weight 3%.
The softness of spherical particles of ImerCare® P-Scrub for a gentle exfoliation effect. Used regularly, ImerCare® P-Scrub results in smoother, healthier, glowing skin.

Clinical study
IMERCare™ P-SCRUB SOLUTION

IMERICARE™ P-SCRUB RANGE

Gentle exfoliation

Strong exfoliation

ImerCare™ 90P & 120P-Scrub

ImerCare™ 190P-Scrub

ImerCare™ 270P & 400P-Scrub

ImerCare™ 800P-Scrub
ImerCare™ P-Scrub range received the 2016 IMA-Europe* Innovation Award

*Industrial Minerals Association
ImerCare™ P-Scrub is a 100% natural, perlite range of products developed as an environmentally friendly alternative to PE beads for face and body scrubs.

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