



## Disruptive Materials: How it all began

- In December 2011 a group of researchers, Sara Frykstrand Ångström, Johan Gómez de la Torre and Albert Mihranyan as part of Prof. Maria Strømme's team, from Uppsala University in Sweden, succeeded in synthesizing a stable mesoporous composite material with an extraordinary high surface area, which they named Upsalite.

# Upsalite®

- In 2012 the first patent application was filed.
- In 2013 Disruptive Materials AB was founded.
- In 2017 the first patent was approved in the USA, followed by global approval in 2018.
- Disruptive Materials has, as of end of year 2018, 25 employees.
- Disruptive Materials has already won various awards including: In 2014 it was voted one of the hottest new Tech companies by "33 listan", a list of emerging technology companies in Sweden; in 2017 it was elected best nanotechnology company of the year in the Nordics by SwedNanoTech; in 2018 a collaborative product was the winner of an ISPO award for best new climbing accessory.

### Upsalite® general facts

- Upsalite is a truly unique and versatile material enabling a wide range of applications and several product opportunities from pharmaceuticals to cosmetics.
- The porous structure enables numerous possibilities including absorption of moisture, lipids, and odor, as well as the load and release of active beneficial ingredients such as drugs, perfume and antioxidants.
- Upsalite is an amorphous porous magnesium carbonate that has been demonstrated in over 15 peer-reviewed scientific publications.
- Upsalite has a significant competitive advantage, its highly porous nature and extreme pore volume per weight. These are the key properties behind its unique capacity to absorb high amounts of water, oil and fat, and what makes it possible to achieve high load, and rapid release, of certain ingredients.
- Upsalite is derived from the naturally abundant earth element Magnesium.
- The manufacturing process of Upsalite is scalable and may be performed in standard industry equipment. extremely energy efficient with very little waste.
- Upsalite can be used to produce a versatile range of material grades.
- Upsalite offers a large number of product opportunities.
- Upsalite is a non-crystalline form of amorphous magnesium carbonate,  $MgCO_3$

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