

With pioneering work
to market leader

Innovation from tradition

The success story of MISAPOR foam glass granulate is based on true pioneering work and vision – from three Swiss individuals who rapidly turned their idea into a market leader across several European countries.



Easy building. Sustainable living.

Building materials are resource-intensive to manufacture. The materials used are often not conflict-free. Despite innovative recycling approaches, it will not be possible in the foreseeable future to meet the demand for building materials through recycling and reprocessing alone.

MISAPOR has set itself the goal of developing sustainable building materials from secondary raw materials originating from outside the construction industry, which reduce the resource-intensive production of conventional building materials and at the same time solve a (non-industry) disposal problem.

Today, waste glass. Tomorrow, building material.

Feeding waste glass into the new production of container glass reduces energy consumption by up to 25% and thus conserves valuable resources. The proportion of waste glass in the production of container glass is technically limited. Combined with the high collection rate, this leads to structural surpluses of waste glass.

MISAPOR utilises these surpluses and processes the glass waste into foam glass granulate.

Our performance promise

MISAPOR offers tailored solutions in the field of insulation and lightweight construction. These offer significantly better ecological and societal benefits than conventional solutions.

MISAPOR

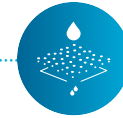
Properties of
foam glass granulate

Our product



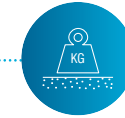
Insulating

Thermal insulation is a show-case discipline of MISAPOR. The load-bearing foam glass granulate layer enables thermal bridge-free construction on a mineral basis. Whether as load-bearing perimeter insulation, vertical insulation on basement walls or in refurbishments – MISAPOR insulates sustainably and efficiently.



Draining

Two factors are responsible for the excellent drainage: each grain is closed-cell, and only adhesive water remains temporarily bound to the rough surface. In addition, the compacted layer has a void content of over 30%, allowing large volumes of water to drain away quickly.



Load-bearing

MISAPOR withstands pressure even under high loads. The fine cell structure of each grain and the unique interlocking effect of the compacted fill provide high stability under dynamic and static loads and guarantee optimal load distribution onto the lower layers (concrete slab, poor subsoil).



Sustainable

When it comes to circular construction, foam glass is clearly the first choice. MISAPOR is made from 98% secondary raw material waste glass. After initial use, the durable building material can be reused elsewhere as a recycled building material.



Fire-resistant

Foam glass has fire classification A1 and is considered non-combustible. The material retains its shape at temperatures of up to 600° Celsius. This property is of great benefit in both above-ground and underground construction and allows for a wide range of applications.



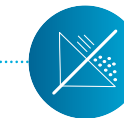
Lightweight

MISAPOR has a bulk density up to 10 times lower than gravel. The low weight allows high transport volumes and makes it ecologically sensible even over longer transport distances. When installed and taking into account adhesive water, installation densities of up to 330 kg/m³ are achieved (Dynamic 10/50).



Frost-resistant / Capillary-breaking

Due to the closed-cell structure of each grain and a void content of over 30% in compacted condition, frost damage is excluded. Additionally, the fill is capillary-breaking and prevents water from rising into upper layers prone to frost.



Doesn't roll

Thanks to the angular shape of the individual grains, foam glass granulate can be heaped at an angle of up to 45° without stabilisation. From space-saving interim storage to easy modelling, this is a significant advantage over fills with round grains.

Further information on products, applications, certificates and approvals can be found on our website or on social media.

 facebook.com/misaporag

 @misapor_international

 linkedin.com/misapor



MISAPOR AG GERMANY

Inselgraben 6
88131 Lindau, Germany
+49 32 22 1854 222
info@misapor.de

MISAPOR AG SWITZERLAND

Rossriedstrasse 2
7205 Zizers, Switzerland
+41 81 300 08 08
info@misapor.ch

MISAPOR SA FRANCE

2, Av. de Bruxelles
68350 Brunstatt-Didenheim, France
+33 3 67 88 03 00
info@misapor.fr



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Today, waste glass.
Tomorrow, building material.



MISAPOR
EASY BUILDING. SUSTAINABLE LIVING.

Score points with
foam glass granulate

Our principle

MISAPOR offers tailored solutions in the field of insulation and light-weight construction, with a significantly better ecological and societal benefit than conventional solutions.

Application / Installation

MISAPOR foam glass granulate is used in above-ground and under-ground construction, landscape gardening, infrastructure and road building, as well as in numerous special applications. On site, the material can be distributed at high speed and compacted using conventional equipment. This saves time – and as we know, time is money!

Distribution

Thanks to the low weight, the transport volume per load is multiplied. This significantly reduces transport costs and times. The material arrives in loose form or packed in convenient big bags from local building material suppliers or directly from our plant to the construction site.

Production / Products

In continuous furnaces, the ground waste glass is expanded to seven times its original volume. In the process, the essential properties of the glass are retained. MISAPOR foam glass granulate has high compressive strength, is inert and impresses with its low bulk density and good insulation values.

Collecting glass

When it comes to collection, we Western Europeans are the best in the world. In the case of container glass, national collection rates are well over 80%. In our home market of Switzerland, the rate is even above 95%! Over one million Swiss citizens supply MISAPOR with the raw material waste glass.

Upcycling

High collection rates lead to structural surpluses, as the glass industry cannot operate with 100% waste glass. The conventional recycling approach must therefore be expanded. The question arises: how can these surpluses be turned into new products that complement or even fully replace existing, resource-intensive products in their function and properties?

Product design

Following the principle of upcycling, MISAPOR has developed a building material from waste glass that fully meets the requirements of the modern circular economy. The product consists solely of secondary materials, is completely maintenance-free and can be reused after initial application without any reprocessing.

Values,
figures and facts

Our foundation

For us, it's not just about foam glass granulate, but about innovation, sustainability and future-suitable solutions in construction.

As a modern company, we rely on our team of motivated and talented individuals who are ready to explore new paths with us and help shape the construction industry of tomorrow. We rely on creative minds who not only pitch in, but also think ahead. At our company, we work in a dynamic en-

vironment where innovation and teamwork are of the highest importance. Mutual respect, flat hierarchies and a constant drive for improvement are what set us apart.

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times the volume of the original waste glass is achieved by MISAPOR during the firing process. By adding mineral activators, the ground waste glass first expands in the furnace, and during cooling, the foam glass cake breaks apart into the familiar granulate form.

1982

saw the founding of MISAPOR in Surava, where the company remains firmly rooted in Graubünden to this day.

40,000

tonnes of waste glass are processed by MISAPOR annually. This corresponds to around 65% of the waste volume in Switzerland that cannot be used for new glass production. MISAPOR solves this disposal problem by upcycling the surplus waste glass into foam glass granulate.

98

per cent is the proportion of waste glass in our MISAPOR foam glass granulate. This makes it a purely mineral product. Ecology and sustainability are not empty buzzwords for us.

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countries form our home markets: Switzerland, Germany and France. Alongside the two production sites in Switzerland (Surava and Dagmersellen), MISAPOR operates customer service centres in all three countries and is also represented in Luxembourg and Belgium. Our experienced sales team supports you on site with your construction project.

250,000

cubic metres is MISAPOR's annual production capacity. To put it visually: with a year's production from MISAPOR, we could fill 100 Olympic swimming pools.

As versatile as the
construction industry itself

Our applications

Be it above-ground, underground or specialist construction. Foam glass granulate from MISAPOR is highly versatile and covers a wide range of structural challenges. Making things simpler – and lighter.

Thermal insulation in above-ground construction

Insulating residential and utility buildings pays off – it helps save on heating costs and protects the climate. It also improves comfort and contributes to the increased value of the building.

To insulate with MISAPOR is to insulate with the future in mind. Foam glass granulate differs from conventional insulation materials by completely avoiding the use of primary resources and can be reused without reprocessing after its service life. Its insulation properties remain constant throughout its entire lifespan.



Landscape gardening and sports grounds

Stable and load-bearing lightweight fills offer entirely new design and usage possibilities in landscape gardening.

The compression-resistant and stable fill is suitable for simple modelling or as a foundation material for areas intended to support traffic. The fill is highly draining (void content > 30%) and quickly channels water to where it should go.



Infrastructure and road construction

For poor or unstable substrate, lightweight construction offers a practical, economical solution.

In contrast to conventional methods, lightweight construction saves time and material costs. Due to the low weight of foam glass granulate, even the smallest replacement quantities are usually sufficient to sustainably relieve the ground. MISAPOR can also be used in combination with other improvement measures.

