SWARCOFORCE glass filler beads impress with a low CO_2 footprint

The environmentally friendly glass filling beads combine efficient performance with ecological responsibility.

At a time when sustainability and environmental protection are becoming increasingly important, companies are faced with the challenge of finding innovative solutions that both improve the performance of their products and minimise their environmental impact. SWARCO Indusferica shows what this can look like with its innovative SWARCOFORCE glass filler beads. These not only enhance the performance of materials, but also set new standards in terms of environmental compatibility.

Amstetten, 25 March 2024 - "SWARCOFORCE is the first choice when it comes to glass filler beads for special industrial applications. That is our vision. We work towards it every day - both in our product development and in customised solutions for our customers," explains Andreas Krenmayr, Key Account Manager at SWARCO Indusferica. The innovative power of SWARCOFORCE glass filler beads strengthens materials and the environment: as an additive, SWARCOFORCE not only improves the properties of the end product, but also impresses with its environmentally friendly production along the entire value chain.

SWARCOFORCE glass filler beads shine in all areas

SWARCOFORCE glass filler beads have a wide range of applications: in addition to paints, colours and coatings as well as building materials, SWARCOFORCE glass filler beads are successfully used in the plastics industry. For example, the micro glass beads are added to the materials during compounding or processing of the plastic granulate in order to reduce warpage and shrinkage in injection moulded materials thanks to the isotropy. Technical components, interiors and exteriors in the automotive sector or 3D printing materials benefit from improved product properties thanks to SWARCOFORCE.

Sustainable reinforcing material for the plastics industry

The average CO2 footprint (cradle-to-gate) for all SWARCOFORCE glass filler bead production sites is 1.14 kg CO2e/kg product. Compared to competitor products, this value is exemplary and sustainable fillers for the plastics industry are increasingly in demand. SWARCO Indusferica uses the Ecochain Helix software solution for comprehensive LCA analyses. This allows the emissions in the supply chains, all production processes and throughout the entire product life cycle to be precisely calculated and continuously optimised. Under the leadership of the SWARCO Global Glass Beads Technology Centre and in collaboration with recognised research institutions, SWARCO conducts research into sustainable products and processes worldwide.

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SWARCO Indusferica focusses on the circular economy

The glass filler beads are melted from soda-lime glass cullet. By using high-quality recycled glass (post-industrial waste), SWARCO Indusferica makes significant energy savings. The origin of the glass is always traceable and it is purchased in the regional vicinity of the production plants. In this way, SWARCO Indusferica avoids long transport routes. Customers are offered a combination of road and rail transport for the delivery of SWARCOFORCE glass filler beads in order to reduce further transport emissions. Resource-conserving packaging is used for SWARCOFORCE glass filler beads, with attention paid to high recyclability. The waste heat from the production process is used to heat the buildings or to supply neighbouring industrial plants. SWARCOFORCE glass filler beads are inert and waste treatment does not result in any significant downstream emissions. "The circular economy and energy efficiency are particularly important to us. We are focussing all our efforts on making our products as sustainable as possible," says Stephanie Müller, Marketing Manager at SWARCO Indusferica.

About SWARCO Indusferica

SWARCO Indusferica is part of the international SWARCO Group and utilises the universal advantages of glass beads for special industrial applications. What began in 1969 with small reflective glass beads for road markings has developed into one of the world's leading manufacturers of micro glass beads with production facilities in Europe and the USA. Micro glass beads are used as an abrasive for surface treatments, as a high-quality filler in industrial applications and as a filter material for water treatment. In traffic engineering, the micro glass beads embedded in the marking material reflect the headlights and thus keep road markings visible. This increases road safety, especially at night.

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Further information can be found at:
https://www.swarco.com/de/loesungen/indusferica

Please do not hesitate to contact us if you have any questions:

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Picture:

The Global Glass Beads Technology Centre in Neufurth, Austria, is one of the most modern glass bead factories in the world.