

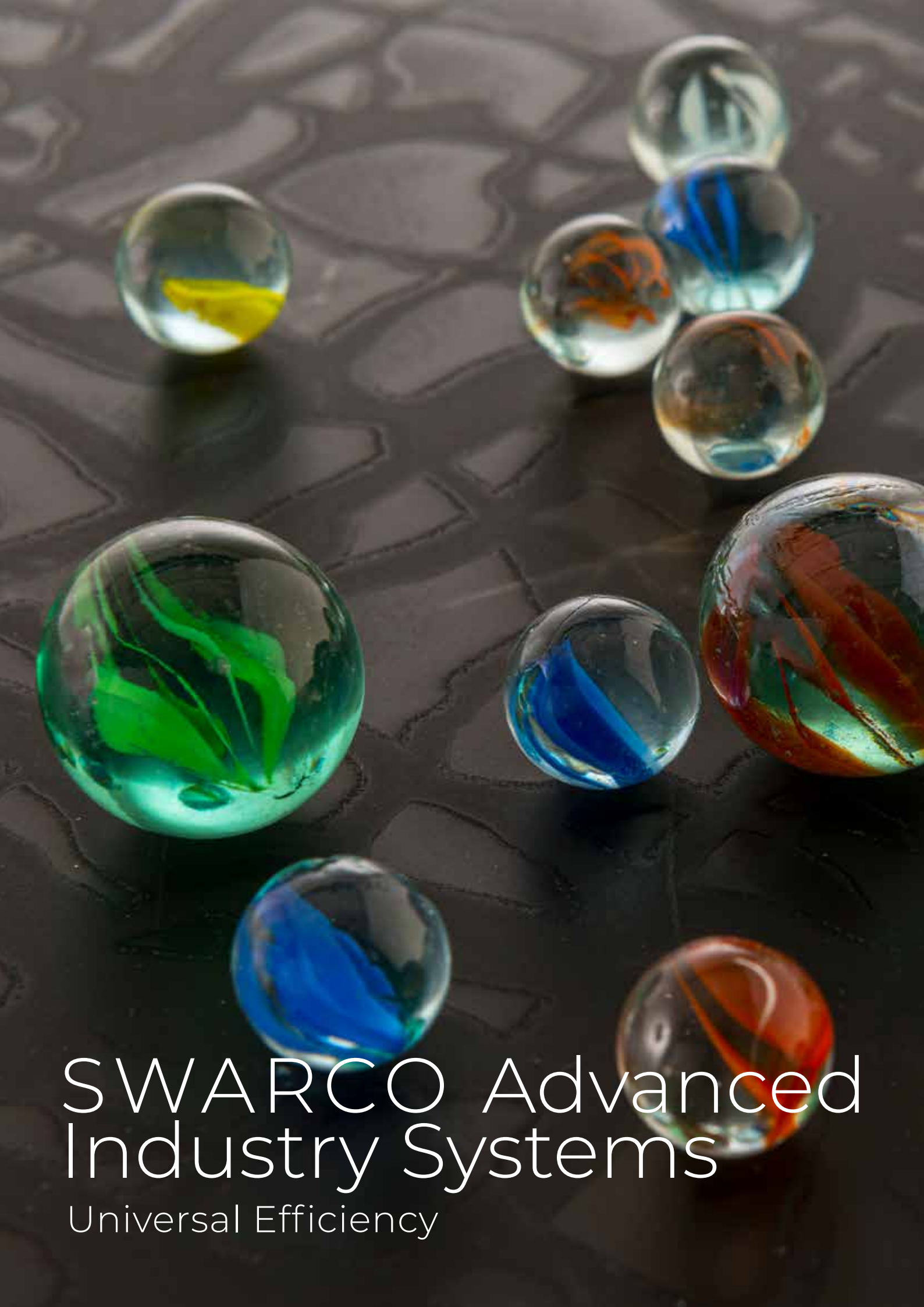
SWARCO ADVANCED INDUSTRY SYSTEMS UNIVERSAL EFFICIENCY



SWARCO | The Better Way. Every Day.



Advanced Industry Systems



SWARCO Advanced Industry Systems

Universal Efficiency

OUR PHILOSOPHY

OUR MISSION

We leverage the universal benefits of glass beads for your special industry applications, in energy-efficient ways.

OUR VISION

Industrial glass beads by SWARCO Advanced Industry Systems – the world's preferred choice in all niches

OUR VALUES

Efficiency, Diversity, Intelligence

OUR MOTTO

Universal Efficiency



TAILOR-MADE SOLUTIONS

With their outstanding precision and first-class quality, SWARCO micro glass beads make a compelling case in a broad range of applications.

Refining flat glass into micro glass beads is SWARCO Advanced Industry Systems' core competence. With over five decades of experience and continuous research and development activities at the Competence Center for Glass Technology in Amstetten, Austria, SWARCO has always been the front runner, setting new standards in the glass bead industry.

Both internally and in its solutions, SWARCO has a long-standing commitment to quality and environmental protection. The raw

materials used for SWARCO micro glass beads are subject to EU guidelines on chemicals and hazardous substances and comply with the REACH regulation and the RoHS directive.

For an external verification of the quality and environmental focus of its work, SWARCO Advanced Industry Systems uses an ISO 9001 certified quality management system.

The certification gives clients the certainty that they can count on quality in the long run.

SUSTAINABILITY AND ENVIRONMENTAL PROTECTION

For us, this is about being aware of our ecological footprint and constantly working on improving it.



Circular Economy

Instead of producing flat glass by melting primary raw materials, SWARCO Advanced Industry Systems sources high-grade recycled glass from the flat glass industry, which uses 50% less energy. The recycled material used consists solely of cuttings and scraps from high-quality industrial glass (post-industrial waste). At SWARCO Advanced Industry Systems, we have the necessary know-how to produce high-grade glass beads from these recycled products. Also, the origin and trajectory of the glass can be traced. To avoid transporting the raw materials over large distances, we purchase them in the region near the different production facilities.



Energy Efficiency

SWARCO Advanced Industry Systems production facilities in Europe are ISO 50001 certified. We track and document each production unit's energy consumption. We strive to further develop state-of-the-art technology to reduce our energy consumption and our emissions and to achieve better recycling rates in the raw materials we use. At SWARCO Advanced Industry Systems, we pride ourselves on having some of the greenest glass bead factories in the world.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



Ensure sustainable consumption and production patterns

13 CLIMATE
ACTION



Take urgent action to combat climate change and its impacts.

We align our business on the UN Sustainable Development Goals and contribute to peace and prosperity.



SWARCOBLAST glass blasting beads are a mineral fine blasting medium made of lead-free hardened soda-lime glass that is used in injector and pressure blasting processes for treatment of workpiece surfaces, such as of metal, cast, wooden or 3D printed parts. Frequent tests by external institutes ensure that the raw materials used are free of heavy metals.

Thanks to the variety of narrow and precise particle-size distributions, our range of glass blasting beads convinces our customers, who can rely on the exactness of the sievings. With their outstanding precision and long service lives, SWARCOBLAST glass blasting beads make a compelling case in a broad range of applications.

SWARCOBLAST

SWARCOBLAST blasting beads for surface finishing



Glass Blasting Beads

- Cleaning
- Deburring
- Smoothing
- Reduction of surface roughness
- Matting
- Polishing
- Shot peening

Glass Granulate

- Derusting
- Descaling
- Deburring of metallic materials
- Woodworking

Particularly suitable when blasting media loss is unavoidable

Blasting Media

In addition to glass blasting beads and glass blasting granulate, SWARCO Advanced Industry Systems also offers other blasting media:

- Normal, high-grade and blasting corundum
- Crushed grinding wheels
- Plastic granulate
- Corn cob shot
- Walnut shell granulate



SWARCOFORCE glass filler beads are high-grade filling agents that contribute to improving the physical properties of plastics, resins, paints, varnishes, coatings and building materials. They can be used with a very wide variety of coatings, which defines the interaction between the glass and the matrix material used (e.g. the adhesion between glass and plastic). Many different grain sizes are available, and the production process ensures narrow tolerance ranges.

SWARCOFORCE glass filler beads impact the properties of the end product, such as rigidity and pressure resistance, warping and shrinking behaviour, fluidity, abrasion resistance, tensile strength, impact resistance, colour, scratch resistance, surface gloss, light diffusion, etc.

SWARCOFORCE

Using SWARCOFORCE glass beads as filling agents enhances product functionality.



Glass Filler Beads for Paints, Varnishes and Coatings

Glass filler beads can be used as filling agents for paints, varnishes and coatings to rely on different physical properties of glass, such as surface improvement and scratch resistance. In laminate flooring, glass filler beads reinforce the wear layer, increasing abrasion resistance.



Glass Filler Beads for Plastics

Glass filler beads are added to the materials used for compounding/processing plastic granulate in order to enhance the required qualities. For injection moulding materials, glass filler beads reduce warping and shrinking thanks to their isotropy. They are typically used in technical components, interior and exterior automotive parts, and 3D printed materials.



Glass Filler Beads for Building Materials

In the building materials industry, glass filler beads are used, among others, in translucent joint sealants, which break light in addition to reflecting it. This enhances the colours of glass mosaics and glass tiles and gives them a shimmering effect. Surface structures compacted with SWARCOFORCE glass filler beads are waterproof and easy to clean.

SWARCO | The Better Way. Every Day.

WELL ROUNDED

In 1969 we started out with the manufacture of tiny reflective glass beads for road markings. Today, we have grown into one of the world's leading manufacturers of micro glass beads, with production facilities in Europe, the United States and Saudi Arabia. Micro glass beads serve as high-grade filling agents for industrial applications and as blasting media for surface treatment applications.

In traffic technology, these mini-reflectors make road markings visible at night. Micro glass beads which are embedded in the marking materials reflect the beam from the headlight back to the driver, illuminating the road markings; this enhances road safety, especially in the dark.

As part of the international SWARCO group, SWARCO Advanced Industry Systems leverages the universal benefits of glass beads for special industry applications.

www.swarco.com/ais

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