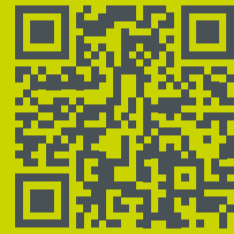


OUR MISSION
We leverage the universal benefits of glass beads for your special industry applications in energy-efficient ways.

OUR VISION
Industrial glass beads by SWARCO Indusferica – the world's preferred choice in all niches

OUR VALUES
Efficiency
Diversity
Intelligence

OUR MOTTO
Universal Efficiency



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WHEN PURITY MAKES THE DIFFERENCE

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Top: Plastic workpiece with a conventional filler and slight surface irregularities; bottom: plastic workpiece with SWARCOFORCE glass filler beads and a calm, uniform surface. Photo credit: Studio 0816, Nano Banana Pro

Material origin and processing quality are decisive factors. In many plastics applications, impurities can become visible, affect component quality and lead to unexpectedly high reject rates.

Our glass filler beads are produced from selected flat glass sourced from window manufacturing. This type of glass is inherently uniform in composition and contains only minimal foreign particles. That consistency proves valuable in further processing. The glass beads can be incorporated evenly into the material and, with a clean raw material base, help ensure a consistent color and surface appearance in the finished component.

With alternative fillers, fluctuations in the source material can have a greater impact. Variations in composition, natural impurities or inconsistent quality may become visible in the final product.

Relying on a clean material base helps minimize these effects. Often, it is precisely these small differences in the material that ultimately make the big difference. And SWARCOFORCE stands for a filler that does not seek attention, but simply performs.

ALL-ROUNDER

News and Updates from SWARCO Indusferica



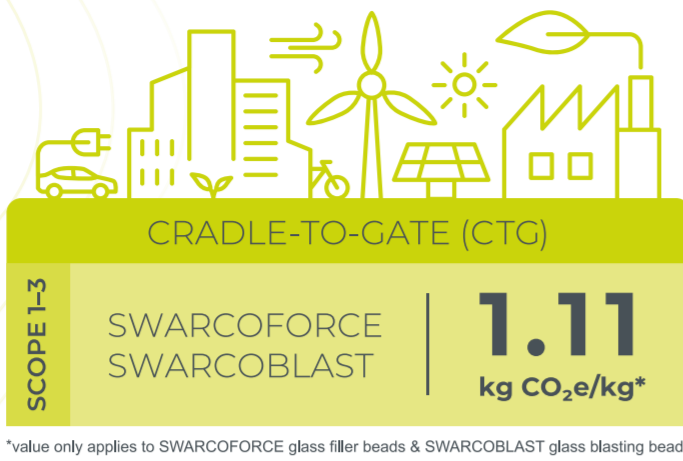
THE SECOND LIFE
OF GLASS

WHEN PURITY
MAKES THE DIFFERENCE

QUALITY
AT WORK INSIDE

#needforbeads

www.swarco-indusferica.com



*value only applies to SWARCOFORCE glass filler beads & SWARCOBLAST glass blasting beads

SWARCOFORCE
AT A GLANCE

SCAN THE QR CODE
TO FIND OUT MORE



Glass doesn't disappear. It changes its role – from broken window glass to precision SWARCOFORCE glass filler beads. Photo credit: Studio 0816, Nano Banana Pro

THE SECOND LIFE OF GLASS

Window Glass Becomes a Functional Filler

Glass is a material we encounter every day. It is used in windows, façades and buildings, where it reliably fulfills its purpose. When this task comes to an end, the material does not lose its value. Instead, it takes on a new function as a SWARCOFORCE glass filler bead in industrial applications, because window glass possesses properties that make it particularly suitable for further use in industrial applications.

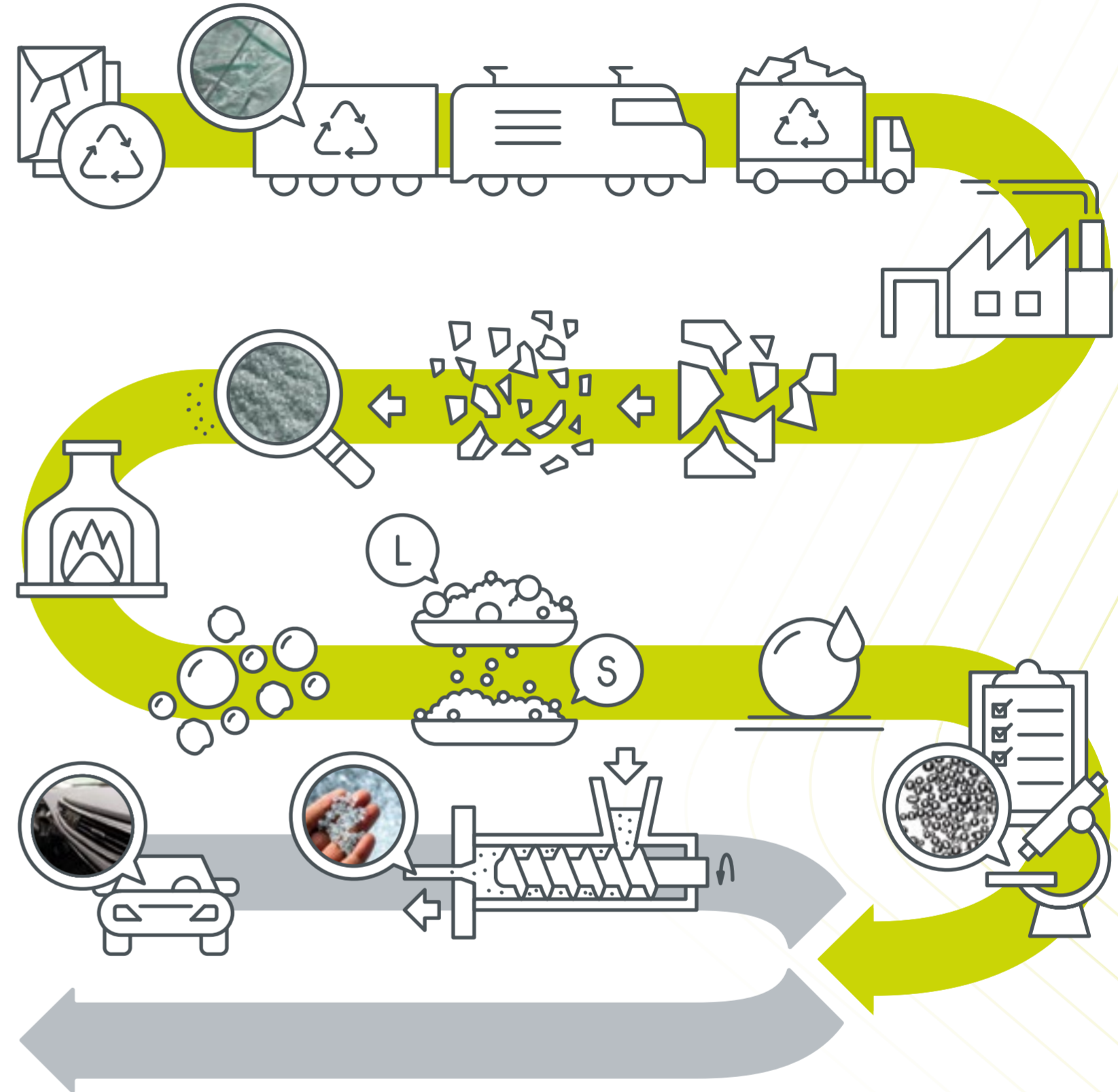
Selected flat glass cullet forms the starting point. The material is collected, processed and refined in a controlled production process. Step by step, it is transformed into a precisely defined filler that is used in plastics, coatings and composite materials. Not as a makeshift solution, but as a deliberately engineered functional component with clearly defined properties.

The conscious use of recycled glass has measurable effects. Existing material streams are continued instead of relying on new primary raw materials. At the same time, the energy required for extraction and processing is reduced. This directly influences resource consumption and emissions throughout the production chain. They are measurable and transparent, without claiming to solve everything.

SWARCOFORCE glass filler beads therefore combine consistent material quality with responsible resource use. The glass remains part of the cycle and takes on a new role within durable industrial products. Quiet and unobtrusive, yet with tangible benefits for industrial processes. In this way, glass is given a second life that goes far beyond its original function.

QUALITY AT WORK INSIDE

A Day in the Life of a SWARCOFORCE Glass Filler Bead



Old window glass is collected, transported to the plant, processed, sorted and crushed; the glass material is melted, formed into uniform glass beads, cooled and classified, integrated into the compound, and processed, for example, into a dashboard. Graphic credit: Studio 0816

I am part of something that is used every day without much thought. As a SWARCOFORCE glass filler bead, I operate where materials need to perform reliably. Today, I am embedded in the plastic of a dashboard. Positioned directly in front of the driver, exposed to sun, heat, cold and constant movement over many years. It is expected to appear stable, remain dimensionally sound and retain its shape, no matter how many kilometers the vehicle covers.

Before I arrive here, I have already come a long way. My journey begins where glass is collected and processed. This is followed by the melting process, in which uniform glass beads are formed from the cullet. Only in the next step do I become part of a compound that will later be processed

into plastic components. What may seem like an intermediate step ultimately determines the mechanical behaviour of the finished product.

As a component within the plastic, I help the dashboard absorb loads evenly. The part remains dimensionally stable, transitions are smooth and drill holes fit precisely. In injection molding, this ensures consistent processes and reduces the need for readjustment. During assembly, it guarantees accuracy of fit. In use, it contributes to long-term durability.

No one will see or name me. Yet that is precisely my strength. As a SWARCOFORCE glass filler bead, I help ensure that a visible component performs reliably. Not spectacular, but noticeable wherever quality matters in everyday life.

#needforbeads

Dear Readers,

In this issue of the All-Rounder, "The Second Life of Glass" takes center stage. We show how high-quality flat glass is transformed into a high-performance filler for industrial applications and the role that material origin, purity and processing play in this process.

SWARCOFORCE glass filler beads operate inside components, contributing to stable processes and ensuring that products perform reliably in everyday use. It is often precisely these invisible elements that make quality possible in the first place.

Enjoy reading!

Best regards,

Thomas Auinger
Head of SWARCO Indusferica