

EXCELLENCE IN SURFACE FINISHING
SWARCOBLAST



SWARCO | The Better Way. Every Day.

swarco 
Advanced Industry Systems



OUR PHILOSOPHY

OUR MISSION

SWARCOBLAST blasting
beads for surface finishing

OUR VISION

SWARCOBLAST sets the
highest standards for surface
finishing applications around
the world.

OUR VALUES

Quality, Reliability,
Continuity

OUR MOTTO

Excellence in surface finishing

APPLICATIONS



With their outstanding precision and long service lives, SWARCOBLAST glass blasting beads make a compelling case in a broad range of applications.

Cleaning

Desanding · Removal of residues · Gentle removal of paints and coatings, solder and welding residues, temper colours · Surface treatment for coatings

Finishing

Smoothing, lapping and polishing (reduction of surface roughness, removal of toolmarks, anti-reflective finishing, matting, satin finishing) · Exposure of surface defects

Shot Peening

Surface hardening · Increasing endurance, fatigue strength and dimensional accuracy · Improving lubricating film adhesion · Reducing notch sensitivity · Preventing stress corrosion cracking · Straightening and shaping · Compacting

Deburring

In deburring, burrs are removed from metal workpieces which were manufactured through punching, milling or turning.



SWARCOBLAST CORE COMPETENCE



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.

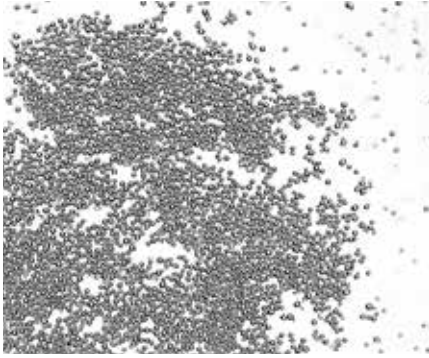
For an external verification of the quality and environmental focus of its work, SWARCO Advanced Industry Systems uses an ISO 9001 certified quality management system.

SWARCO Advanced Industry Systems production facilities in Europe are ISO 50001 certified.



The certifications give clients the certainty that they can count on quality in the long run.



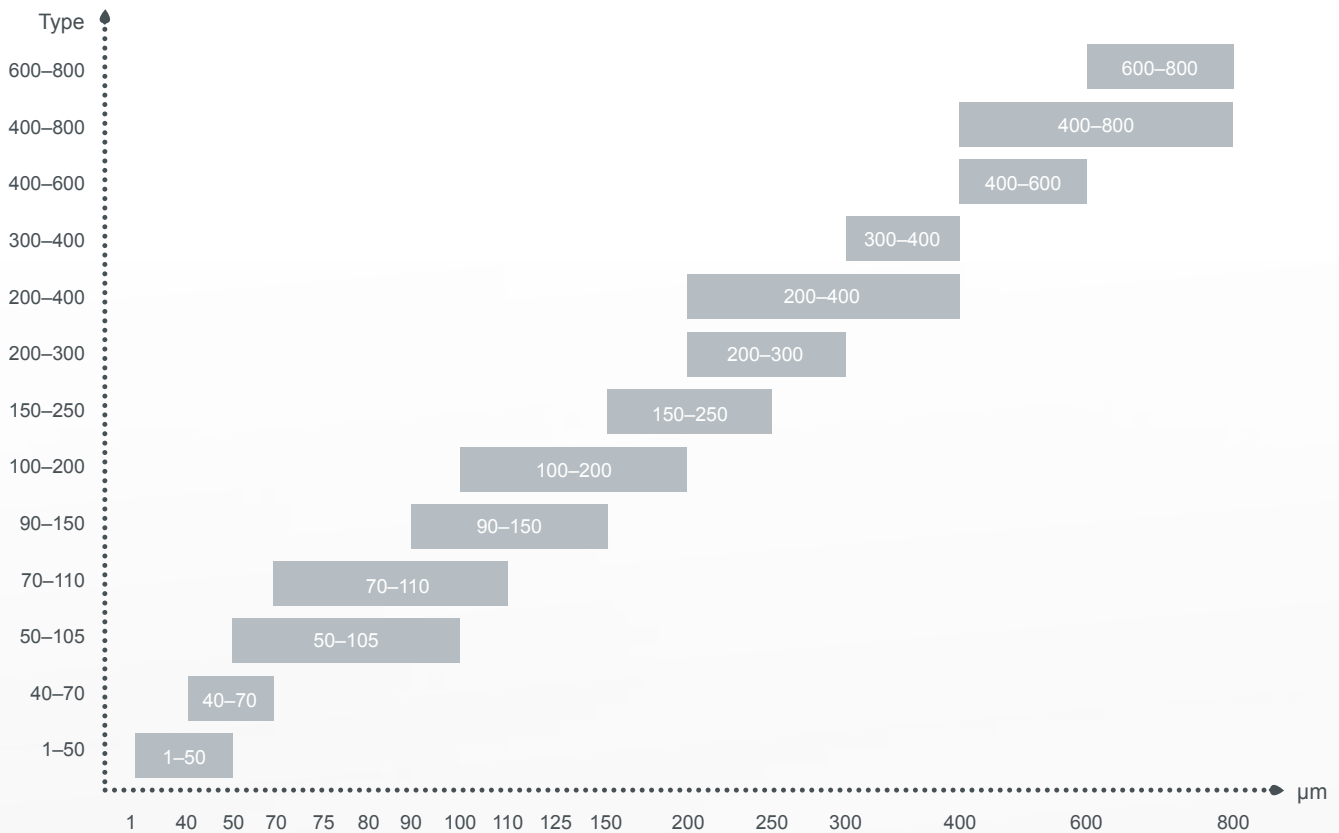
SWARCOBLAST Glass Blasting Beads



SHOT PEENING
SHOT CLEANING

Material	Soda-lime glass
Description	Mineral fine blasting medium made of glass
Process	Injector and pressure blasting processes
Shape	Sphere
Compacting/ Shot peen forming	X
Deburring	X
Stripping	X
Smoothing, polishing	X
Matting	X
Cleaning	X
Texturing	X
Specific weight	~ 2.5 g/cm ³
Bulk weight	~ 1.5 kg/l
Hardness	acc. to Mohs ~ 6 acc. to Rockwell ~ 46 acc. to Vickers ~ 645
Packaging	 

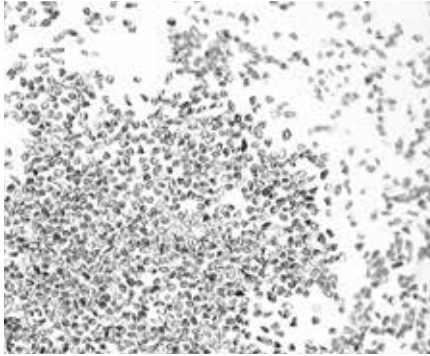
Available Grain Sizes





Chemical composition of glass
blasting beads and glass
blasting granulate

SiO ₂	68.0-75.0%	CaO	7.0-12.0%
Al ₂ O ₃	0-2.5%	Na ₂ O	12.0-18.0%
MgO	0-5.0%	Other	max. 2.0%

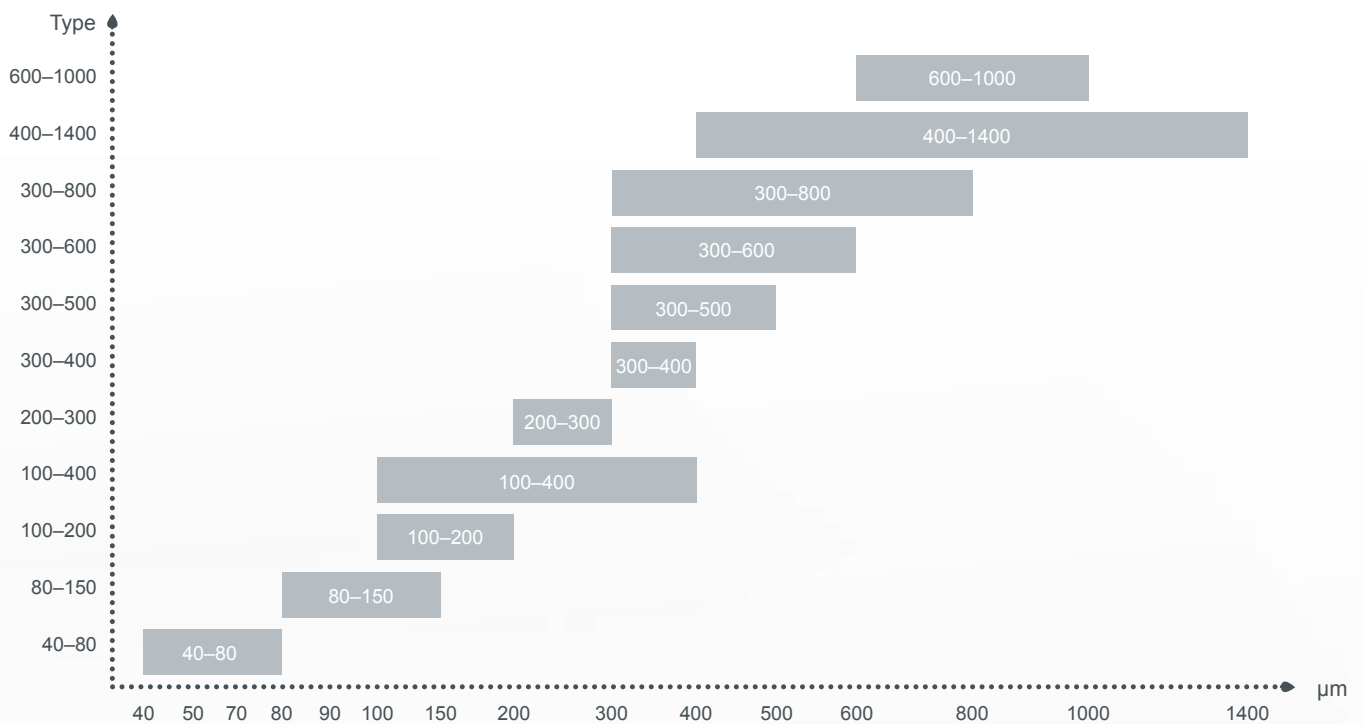
SWARCOBLAST Glass Blasting Granulate




Material	Soda-lime glass
Description	Mineral fine blasting medium made of glass
Process	Injector and pressure blasting processes
Shape	Grain
Deburring	X
Derusting	X
Stripping	X
Descaling	X
Cleaning	X
Specific weight	~ 2.5 g/cm ³
Bulk weight	~ 1.5 kg/l
Hardness	acc. to Mohs ~ 6 acc. to Rockwell ~ 46 acc. to Vickers ~ 645
Packaging	 

SHOT CLEANING

Available Grain Sizes



Further customized particle-size distributions are possible upon request.

 40 bags = 1 pallet

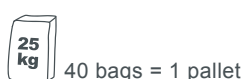
 = big bag

BLASTING MEDIA



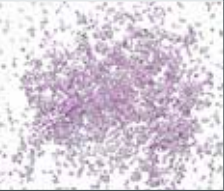



The SWARCOBLAST product range comprises a variety of products made of mineral, synthetic or natural raw materials.













For technical data sheets on our different products and available grain size distributions visit: www.swarco.com/ais

Please consider our General Terms and Conditions and the general notes of the technical information sheets on all products described in this brochure. This information is no warranty for the properties of these materials. The user has to make sure that the material is appropriate for their intended application.



SHOT CLEANING

	Normal corundum	High-grade corundum, white	High-grade corundum, pink
Products at a glance			
Material	Aluminium oxide	Aluminium oxide	Aluminium oxide
Description	Hard and tough, multiple-use blasting medium with sharp edges	Very hard, multiple-use blasting medium with sharp edges	Very hard, multiple-use blasting medium with sharp edges; high abrasion effect
Process	Pressure and injector blasting processes	Pressure and injector blasting processes	Pressure and injector blasting processes
Shape	Grain	Grain	Grain
Roughening	X	X	X
Deburring	X	X	X
Derusting	X	X	X
Stripping	X	X	X
Descaling	X	X	X
Smoothing, polishing			
Mass finishing			
Matting	X	X	X
Cleaning	X	X	X
Texturing	X	X	X
Drying			
Specific weight g/cm³	3.9–4.1	3.9–4.1	3.9–4.1
Bulk weight kg/l	1.4–2.1	1.4–1.8	1.4–1.8
Hardness	acc. to Mohs 9	acc. to Mohs 9	acc. to Mohs 9
Grain sizes	1–2000 µm	1–2000 µm	17–2000 µm
Packaging			

Blasting corundum	Crushed grinding wheels	Polyamide plastic granulate	Vest-Air-Fin plastic granulate	Corn cob shot	Walnut shell granulate
					
Aluminium oxide/ Ferrosilicon	Crushed grinding wheels and corundum dust	Polyamide 6	Thermoset/Resins	Ground corn cobs	Ground walnut shells
Blasting medium for cleaning heavily contaminated surfaces	Sharp edges	Non-abrasive, dust-free	Chemically inert, non-toxic, long service life; also available with anti-static agent	Extremely soft, organic material; absorbs water and oil	Natural, organic blasting medium without preservatives
Pressure and injector blasting processes	Pressure and injector blasting processes	Pressure, injector and airless blast cleaning processes	Pressure and injector blasting processes	Mass finishing and pressure blasting processes	Pressure and injector blasting processes
Grain	Grain	Cubic/Cylindrical	Grain	Grain	Grain
X	X				
X	X	X	X		X
X	X				
X	X		X		X
X	X				
				X	X
				X	X
X	X				
X	X		X	X	X
X	X				
				X	
5.0–5.5	3.8–4.0	1.14	1.45–1.52	0.4–0.6	1.0–1.2
2.0–2.5	1.5–1.8	0.7–0.8	0.7–0.8	approx. 0.7	approx. 0.7
acc. to Mohs 9	acc. to Mohs 9	acc. to Mohs 2–3	acc. to Mohs 3–4	acc. to Mohs approx. 4.5	acc. to Mohs approx. 2.5–3.5 acc. to Vickers approx. 25–30
0–3000 µm	44–2830 µm	0.5 x 0.5 – 2 x 2 mm	180–1700 µm	200–5000 µm	100–10000 µm
					

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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, micro glass beads which are embedded in the marking materials reflect the beam from the headlight back to the driver, making road markings visible; this enhances road safety, especially at night.

SWARCOBLAST is a product family of the business segment SWARCO Advanced Industry Systems. 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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