



Glass beads blast-cleaning agent

Designation:	AbraVer[®] glass beads blast-cleaning agent	
Quality:	Manufactured in accordance with ISO 9002. Synthetic mineral blasting media, made of glass. Spherical shaped particles. As to quality assurance the product is subjected to accurate control and continuous examination.	
Origin:	AbraVer[®] is molten in the form of spheres from crushed sodium silicate glass. The manufacture of AbraVer[®] is subjected to most strictly production control.	
Properties:	AbraVer[®] retains its spherical particle shape also during multiple use. By this a constant effectiveness is ensured for all particle size ranges. All constituents are present in oxidised form, predominantly as bonded silicate. Chemically indifferent and water-insoluble. No free metallic constituents. Electrically non-conductive. Typical radioactive elements not detectable.	
Melting point:	about 1200 °C, softening about 800 °C.	
Hardness:	Mohs hardness	> 6
	Rockwell hardness	> 46
	Vickers hardness	> 645
Densities:	Apparent density, determined by using vacuum	approx. 2,5 g/cm ³
	Bulk density for medium particle size range	approx. 1,5 g/cm ³
Chemical analysis: (Approximate Values)	SiO ₂	> 65,00 %
	MgO	> 2,50 %
	CaO	> 8,00 %
	Na ₂ O	> 14,00 %
	Al ₂ O ₃	0,50 bis 2,00 %

Please contact us for more information:

Sibelco Deutschland GmbH
Müggenburger Strasse 10
D-20539 Hamburg

Ph: +49 40 781298-0

abrasives@sibelco.com



Free silica: Not detectable.

Health and Safety regulations: All legal regulations are complied with. The respective limits remain under those laid down in BGR 500 Kap. 2.2 respectively. (EC Law)

AbraVer[®] shall be stored under dry conditions, otherwise it may lose its flowability.

Applicability: **AbraVer[®]** is a high-performing blast-cleaning agent. It is suitable for smooth surface cleaning, reduction of given surface roughness, for example:

cleaning of moulds for

- tyres, glass, for injection moulding, baking tins

cleaning of electrical parts

- soft- and hard materials, hard steel

matting and/or polishing, engraving of

- stainless steel, chromium-plated parts, glass, plastics, stones

shot peening of turbine shafts

anti-reflection blast-cleaning of

- watch cases, windscreen wipers

surface treatment by shot peening:

This method is used to increase the creep resistance of aluminium and aluminium magnesium alloys as they are used mainly in the aircraft industry. Due to its hardness and shape **AbraVer[®]** is suitable to remove contaminants and metal oxides from surfaces without damaging them.

Standard particle sizes:	1)	40 µm to 70 µm
	2)	70 µm to 110 µm
	3)	90 µm to 150 µm
	4)	100 µm to 200 µm
	5)	150 µm to 250 µm
	6)	200 µm to 300 µm
	7)	300 µm to 400 µm
	8)	400 µm to 600 µm
	9)	400 µm to 800 µm

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Forms of supply:	<p>Packed ready for use in multiply vented paper bags each of 25 kg gross for net on pallets, shrink-wrapped.</p> <p>Supply from our warehouse, located next to the seaport of Hamburg, and directly linked with major motorways to all destinations.</p>
Blast-cleaning technique and particle size range selection:	<p>The particle size distribution is to be determined by the user, depending on the individual blast-cleaning purpose and the condition of the surface to be blast-cleaned. The choice of the particle size also depends on the diameter of the nozzle and other values, for example the specified surface profile.</p>
Notes:	<p>Due to its physical properties AbraVer® is suitable for multiple use.</p> <p>How often an utilization step can be repeated depends on the application, air pressure and recycling conditions given in the individual case as well as further variable practice circumstances.</p>
Waste management:	<p>AbraVer® will be taken back by us against payment after prescribed use, for utilization in accordance with the German Kreislaufwirtschafts- und Abfallgesetz (Business cycle and waste law) from 1994-09-27.</p> <p>Procedures are approved by authorities.</p>
Remark:	<p>Please note that all statements made on AbraVer® are only valid during its original condition.</p>

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