



**Glass beads blast-cleaning agent**

|   |  |                               |
|---|--|-------------------------------|
| <b>Designation:</b>                               | <b>AbraVer<sup>®</sup></b> glass beads blast-cleaning agent  |                               |
| <b>Quality:</b>                                   | Manufactured in accordance with ISO 9002.<br>Synthetic mineral blasting media, made of glass.<br>Spherical shaped particles.<br>As to quality assurance the product is subjected to accurate control and continuous examination.   |                               |
| <b>Origin:</b>                                    | <b>AbraVer<sup>®</sup></b> is molten in the form of spheres from crushed sodium silicate glass. The manufacture of <b>AbraVer<sup>®</sup></b> is subjected to most strictly production control.  |                               |
| <b>Properties:</b>                                | <b>AbraVer<sup>®</sup></b> 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.<br>No free metallic constituents.<br>Electrically non-conductive.<br>Typical radioactive elements not detectable. |                               |
| <b>Melting point:</b>                             | about 1200 °C, softening about 800 °C.   |                               |
| <b>Hardness:</b>                                  | Mohs hardness  | > 6                           |
|   | Rockwell hardness  | > 46                          |
|   | Vickers hardness   | > 645                         |
| <b>Densities:</b>                                 | Apparent density, determined by using vacuum   | approx. 2,5 g/cm <sup>3</sup> |
|   | Bulk density for medium particle size range  | approx. 1,5 g/cm <sup>3</sup> |
| <b>Chemical analysis:</b><br>(Approximate Values) | SiO <sub>2</sub>   | > 65,00 %                     |
|   | MgO  | > 2,50 %                      |
|   | CaO  | > 8,00 %                      |
|   | Na <sub>2</sub> O  | > 14,00 %                     |
|   | Al <sub>2</sub> O <sub>3</sub>   | 0,50 bis 2,00 %               |

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|                                       |   |    |                |    |                 |    |                 |    |                  |    |                  |    |                  |    |                  |    |                  |    |                  |
|---------------------------------------|---|----|----------------|----|-----------------|----|-----------------|----|------------------|----|------------------|----|------------------|----|------------------|----|------------------|----|------------------|
| <b>Free silica:</b>                   | Not detectable.   |    |                |    |                 |    |                 |    |                  |    |                  |    |                  |    |                  |    |                  |    |                  |
| <b>Health and Safety regulations:</b> | All legal regulations are complied with. The respective limits remain under those laid down in BGR 500 Kap. 2.2 respectively. (EC Law)<br><br><b>AbraVer®</b> shall be stored under dry conditions, otherwise it may lose its flowability.  |    |                |    |                 |    |                 |    |                  |    |                  |    |                  |    |                  |    |                  |    |                  |
| <b>Applicability:</b>                 | <b>AbraVer®</b> is a high-performing blast-cleaning agent. It is suitable for smooth surface cleaning, reduction of given surface roughness, for example:<br><br>cleaning of moulds for <ul style="list-style-type: none"> <li>• tyres, glass, for injection moulding, baking tins</li> </ul><br>cleaning of electrical parts <ul style="list-style-type: none"> <li>• soft- and hard materials, hard steel</li> </ul><br>matting and/or polishing, engraving of <ul style="list-style-type: none"> <li>• stainless steel, chromium-plated parts, glass, plastics, stones</li> </ul><br>shot peening of turbine shafts<br><br>anti-reflection blast-cleaning of <ul style="list-style-type: none"> <li>• watch cases, windscreen wipers</li> </ul><br>surface treatment by shot peening:<br><br>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 <b>AbraVer®</b> is suitable to remove contaminants and metal oxides from surfaces without damaging them. |    |                |    |                 |    |                 |    |                  |    |                  |    |                  |    |                  |    |                  |    |                  |
| <b>Standard particle sizes:</b>       | <table> <tr> <td>1)</td> <td>40 µm to 70 µm</td> </tr> <tr> <td>2)</td> <td>70 µm to 110 µm</td> </tr> <tr> <td>3)</td> <td>90 µm to 150 µm</td> </tr> <tr> <td>4)</td> <td>100 µm to 200 µm</td> </tr> <tr> <td>5)</td> <td>150 µm to 250 µm</td> </tr> <tr> <td>6)</td> <td>200 µm to 300 µm</td> </tr> <tr> <td>7)</td> <td>300 µm to 400 µm</td> </tr> <tr> <td>8)</td> <td>400 µm to 600 µm</td> </tr> <tr> <td>9)</td> <td>400 µm to 800 µm</td> </tr> </table>   | 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 |
| 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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|  |   |
|--|---|
| <b>Forms of supply:</b>  | <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>   |
| <b>Blast-cleaning technique and particle size range selection:</b> | <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> |
| <b>Notes:</b>  | <p>Due to its physical properties <b>AbraVer®</b> 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>                             |
| <b>Waste management:</b>   | <p><b>AbraVer®</b> 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>  |
| <b>Remark:</b>   | <p>Please note that all statements made on <b>AbraVer®</b> are only valid during its original condition.</p>  |

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