Potters Metal Finishing
Glass Beads
For Cleaning, Finishing, Peening
And Deburring Applications

- Impart a controlled, clean finish on a variety of metals
- Clean quickly without significant metal removal
- Clean, finish, peen and deburr at once
- Provide a unique surface finish
- Can be recycled many times
- Contains no free silica
- Environmentally safe
- Backed by Potters Technical Support
- Meets both Mil and AMS specs for heavy metal limits

Call 1-800-55-BEADS For Your Nearest Distributor

Potters Industries LLC • P.O. Box 841, Valley Forge, PA 19482-1041 • Tel: (610) 651-4700; Fax: (610) 408-9723
Potters Metal Finishing Glass Beads

For Cleaning, Finishing, Peening And Deburring Applications

Glass Bead Media:
- Are consumed at a slow rate and can survive multiple impacts, allowing for continuous recycling of the media.
- Are chemically inert and will not leave ferrous or other undesirable residues on the surface of the workpiece.
- Impart a controlled, clean finish on a variety of metals.
- Clean quickly without significant metal removal.

TYPICAL APPLICATIONS:

Cleaning
- Cleans/preps surface of metal parts without changing tolerances, or imparting ferrous pollutants.
- Combines cleaning, finishing and peening in one operation.

Finishing
- Creates a wide range of unique surface finishes that are easy to reproduce.
- Blends machine marks, seals pores and the results offer the advantages of glass bead peening.

Peening
- Reduces the tensile stress in metal parts, increasing the fatigue limit.
- Reduces stress corrosion cracking.

<table>
<thead>
<tr>
<th>Potters Designation</th>
<th>U.S. Sieve</th>
<th>Nominal Diameter</th>
<th>Min % Round</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max</td>
<td>Min</td>
<td>Microns</td>
</tr>
<tr>
<td>Potters Metal Finishing Glass Beads</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>30-40</td>
<td>.0234 .0165</td>
<td>600</td>
</tr>
<tr>
<td>C</td>
<td>40-60</td>
<td>.0165 .0083</td>
<td>250</td>
</tr>
<tr>
<td>A</td>
<td>20-30</td>
<td>.0331 .0193</td>
<td>125</td>
</tr>
<tr>
<td>AAA</td>
<td>25-45</td>
<td>.0278 .0139</td>
<td>550</td>
</tr>
</tbody>
</table>

GLASS BEAD FACTS:

Coarse Beads
- Remove larger, tougher soils.
- Peen to more intense levels; Peen to deeper zones in surface; Produce higher surface RA; Produce brighter surface; Consume faster at same pressure as fine beads; In practice, may consume slower than fine beads.

Fine Beads
- Remove smaller, lighter soil; More impacts per pound; Clean faster; Peen to less intense levels; Peen outer zones of surfaces; Reach into keyways, fillets and small areas; Produce lower surface RA; Produce matte finish; Consume slower at same pressure as coarse beads; In practice, may consume faster than coarse beads.

All Beads
- Contains no free silica (environmentally friendly); Recycle many times; Clean efficiently at 45°- 60° nozzle angle.

Bead size, shape of the workpiece, angle of the nozzle, distance of the nozzle to the surface area, air pressure, and the type of delivery system (suction versus direct pressure blast) are factors affecting final surface appearance and media consumption parameters.

<table>
<thead>
<tr>
<th>Designation</th>
<th>U.S. Sieve</th>
<th>Nominal Diameter</th>
<th>Min % Round</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max</td>
<td>Min</td>
<td>Microns</td>
</tr>
<tr>
<td>M2</td>
<td>100-170</td>
<td>.0083</td>
<td>150</td>
</tr>
<tr>
<td>M1</td>
<td>120-200</td>
<td>.0098</td>
<td>125</td>
</tr>
<tr>
<td>M0</td>
<td>140-230</td>
<td>.0117</td>
<td>90</td>
</tr>
<tr>
<td>M-99</td>
<td>170-325</td>
<td>.0165</td>
<td>45</td>
</tr>
<tr>
<td>M-95</td>
<td>190-350</td>
<td>.0234</td>
<td>60</td>
</tr>
<tr>
<td>M-90</td>
<td>210-425</td>
<td>.0317</td>
<td>90</td>
</tr>
<tr>
<td>M-85</td>
<td>230-475</td>
<td>.0331</td>
<td>125</td>
</tr>
</tbody>
</table>

Potters® ENVIRONMENTAL COMMITMENT

Potters respects the environment by recycling over one billion pounds of glass each year. Potters works closely with regulatory agencies and responsible customers around the world to ensure that we provide glass beads that do not harm employees, contaminate water supplies or land around roadways. Potters has set its own strict standards and voluntarily performs XRF analysis and other quality control procedures on incoming raw materials to ensure its glass beads are safe and meet heavy metals limitations.

Ballotini® is a registered trademark of Potters Industries LLC. The technical information and suggestions for use and applications presented herein represent the best information available to us and are believed to be reliable. They should not, however, be construed as controlling suggestions. Potters Industries LLC makes no warranties, either expressed or implied, with respect to our materials, including the warranties of merchantability or fitness for any particular purpose. We urge that users of our materials conduct confirmatory tests to determine final suitability for their specific end uses.

Call 1-800-55-BEADS For Your Nearest Distributor