Other 3M™ Microspheres for specialty coatings

3M™ Microspheres are specialty coatings, paints and powder coatings. They have the broadest application for specialty coatings in the industry, and 3M’s glass bubble coatings allow higher processing temperatures and lower density roof coatings. They have the broadest application for paints and powder coatings.

3M™ Glass Bubbles Product Descriptions

<table>
<thead>
<tr>
<th>Product</th>
<th>Density</th>
<th>Crush</th>
<th>10th%</th>
<th>50th%</th>
<th>90th%</th>
<th>95th%</th>
<th>Color</th>
<th>Application Ideas</th>
</tr>
</thead>
<tbody>
<tr>
<td>K20</td>
<td>0.37</td>
<td>25</td>
<td>55</td>
<td>95</td>
<td>120</td>
<td>White</td>
<td>Can increase the level of solar energy reflectivity and increase emissivity of coatings Exterior solar reflectivity</td>
<td>Spray applications</td>
</tr>
<tr>
<td>K37</td>
<td>0.37</td>
<td>20</td>
<td>45</td>
<td>80</td>
<td>85</td>
<td>White</td>
<td>Can increase the level of solar energy reflectivity</td>
<td>Spray applications</td>
</tr>
<tr>
<td>S22</td>
<td>0.22</td>
<td>20</td>
<td>35</td>
<td>60</td>
<td>75</td>
<td>White</td>
<td>Smaller, tighter particle size range and higher performance characteristics.</td>
<td>Caulks, sealants</td>
</tr>
<tr>
<td>S32</td>
<td>0.32</td>
<td>20</td>
<td>40</td>
<td>75</td>
<td>80</td>
<td>White</td>
<td>Smaller, tighter particle size range and higher performance characteristics.</td>
<td>Caulks, sealants</td>
</tr>
<tr>
<td>S38HS</td>
<td>0.38</td>
<td>15</td>
<td>40</td>
<td>75</td>
<td>85</td>
<td>White</td>
<td>Smaller, tighter particle size range and higher performance characteristics.</td>
<td>Caulks, sealants</td>
</tr>
<tr>
<td>S60</td>
<td>0.60</td>
<td>11</td>
<td>30</td>
<td>50</td>
<td>60</td>
<td>White</td>
<td>High strength</td>
<td>Caulks, sealants</td>
</tr>
<tr>
<td>S60HS</td>
<td>0.60</td>
<td>10</td>
<td>20</td>
<td>40</td>
<td>50</td>
<td>White</td>
<td>High strength</td>
<td>Caulks, sealants</td>
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<tr>
<td>S80</td>
<td>0.60</td>
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<td>20</td>
<td>40</td>
<td>50</td>
<td>White</td>
<td>Can increase the level of solar energy reflectivity and increase emissivity of coatings Exterior solar reflectivity</td>
<td>Caulks, sealants</td>
</tr>
<tr>
<td>S100HS</td>
<td>0.60</td>
<td>10</td>
<td>15</td>
<td>35</td>
<td>40</td>
<td>White</td>
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<td>Caulks, sealants</td>
</tr>
<tr>
<td>S120HS</td>
<td>0.60</td>
<td>10</td>
<td>15</td>
<td>35</td>
<td>40</td>
<td>White</td>
<td>Can increase the level of solar energy reflectivity and increase emissivity of coatings Exterior solar reflectivity</td>
<td>Caulks, sealants</td>
</tr>
</tbody>
</table>

For additional technical information on 3M microspheres in the United States, call 3M Energy and Advanced Materials Division, 800-367-8905.

For other 3M global offices, and information on additional 3M products, visit our web site at: www.3M.com.
Eight ways to help you reduce costs while enhancing paint and powder coating performance

1. Lower viscosity and improved flow
   - Unlike many irregularly shaped fillers, 3M ceramic microspheres roll easily over one another, similar to ball bearings. This contributes to lower viscosity, better flow, and improved sprayability.

2. Higher filler loading to reduce costs
   - High-scrub, crystalline silica-free interior paints maintain optical qualities in many applications. Ceramic microspheres can help increase viscosity. But many gloss control materials can increase viscosity. With the lowest surface area to volume ratio of any white grade, 3M™ Ceramic Microspheres are UV transparent to 250nm. The microspheres allow transmission of the UV energy through the coating. 3M ceramic microspheres can increase the viscosity and flow/leveling in E-beam coating applications.

3. Burnish resistance and hardness
   - Higher hardness translates to increased burnish resistance and hardness of the finished surface. The help surfaces stay looking longer to save the time and cost of touch-ups or repainting. With a library of fillers, either angular particles on the surface often break or wear away.

4. Gloss control
   - Many glass control materials can increase viscosity. But 3M™ Ceramic Microspheres can help increase viscosity without glass without significantly increasing viscosity in many applications. Military equipment requires a low-gloss camouflage finish. 3M™ Ceramic Microspheres can help increase gloss control to meet the requirements of the air force after repeated cleaning.

5. Barrier effect
   - Tight particle packing, combined with hardness and tear resistance, creates a durable, low-permeability film barrier against weather, corrosion, and chemicals.

6. Inert and contains no crystalline silica
   - Because of their rare Lo-Corporations, 3M™ Ceramic Microspheres are resistant to a variety of chemicals. Solid ceramic microspheres contain no colloidal crystalline silica as determined by x-ray diffraction (XRD) technology.

7. Radiation curable coatings
   - To help improve productivity and depth of cure for UV-curable coatings, 3M™ Ceramic Microspheres are ideal. This can help improve the viscosity and flow/leveling in UV-curable coating applications.

8. Standard equipment for dispersing
   - With high compression strength, 3M ceramic microspheres are the ideal diluent for the grind. For high-scrub dispersions, cast, ball and mill mills are preferred. Equipment wear has been reported to be less than many high-scrub dispersants in metal films of 10 or lower hardness.

### Ceramic Microspheres Product Descriptions

<table>
<thead>
<tr>
<th>Application</th>
<th>UV-curable coatings for increased durability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comments</td>
<td>Improved hardness and high solids</td>
</tr>
<tr>
<td>Contents</td>
<td>High solids for industrial finishes</td>
</tr>
<tr>
<td>Application</td>
<td>High solids for industrial finishes</td>
</tr>
<tr>
<td>Benefits</td>
<td>Increased hardness and high solids</td>
</tr>
<tr>
<td>Comments</td>
<td>Improved hardness and high solids</td>
</tr>
<tr>
<td>Results</td>
<td>Increased hardness and high solids</td>
</tr>
</tbody>
</table>
Eight ways to help you reduce costs while enhancing paint and powder coating performance

1. Lower viscosity and improved flow

Unlike many irregularly shaped fillers, 3M ceramic microspheres roll easily over one another, similar to ball bearings. This contributes to lower viscosity, better flow, and improved sprayability.

2. Higher filler loading to reduce costs

Improved moisture and slurry handling for easier coating, increased solids, enhanced printing, and reduced costs.

3. Burnish resistance and hardness

3M Ceramic Microspheres are high-strength, inert fine particles with intrinsic hardness. 3M microspheres are durable, camouflage finish that’s resistant to physical impact, high abrasion, and chemicals.

4. Gloss control

High-scrub, crystalline silica free from traditional optical brighteners after repeated cleaning.

5. Barrier effect

With the broadest range of viscosity rates of any filler, 3M™ Ceramic Microspheres can help reduce resin content and increase viscosity loading capacity. 3M™ Ceramic Microspheres can help improve the viscosity and flow/leveling in UV-curable applications, as well as coatings with other additives.

6. Inert and contain no crystalline silica

Because of their inert composition, 3M™ Ceramic Microspheres are resistant to a variety of chemicals. Solid ceramic microparticles contain no noticeable crystalline silica as determined by x-ray diffraction (XRD) technology.

7. Radiation cureable coatings

To help improve productivity and depth of cure for UV-curable coatings, 3M™ Ceramic Microspheres are UV transparent to 250 nm. The microspheres allow the transmission of UV energy through the coating. 3M™ Ceramic Microspheres improve the viscosity and flow/leveling in UV coating applications.

8. Standard equipment for dispersing

With high compression strength, 3M Ceramic Microspheres are less susceptible to jamming for equipment that can handle higher viscosity. Equipment wear has been reported to be less than many irregularly shaped mineral fillers. This can help reduce the cost of equipment and maintenance while improving the performance of the coating.

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**3M Ceramic Microspheres** are high-strength, inert fine particles with intrinsic hardness. They are engineered to help you reduce costs, increase solids, enhance properties, and improve applicability.
Eight ways to help you reduce costs while enhancing paint and powder coating performance

1 Lower viscosity and improved flow

- Unlike many irregularly shaped fillers, 3M Ceramic Microspheres roll easily over one another, similar to ball bearings. This contributes to lower viscosity, better flow, and improved processability.

2 Higher filler loading to reduce costs

- With the lowest surface area to volume ratio of any filler, 3M Ceramic Microspheres can help reduce resin content and increase volume loading capacity. The microspheres can replace non-Valence resin demand and increase volume loading capacity.

3 Burnish resistance and hardness

- Multi 7 hardness and spherical shape contribute to increased burnish resistance and hardness of the finished surface. This helps surfaces stay looking newer longer to save time and cost of touch-up or repainting. With a library of fibers, soft or angular particles on the surface often break or wear away.

4 Gloss control

- Many glass control materials can increase viscosity. But because of the very high levels of 3M Ceramic Microspheres, the materials can help reduce viscosity without significantly increasing viscosity in many applications.

5 Barrier effect

- Tight particle packing, combined with hardness and lusterlessness, creates a durable, low-permeability film barrier against weather, corrosion and chemicals.

6 Hard and contains no crystalline silica

- Because of their inert composition, 3M Ceramic Microspheres are resistant to a variety of chemicals. Solid ceramic microspheres contain no 100% crystalline silica as determined by x-ray diffraction.

7 Radiation curable coatings

- To help improve productivity and depth of cure for UV-curable coatings, 3M Ceramic Microspheres can be cured through the mid-UV wavelength band. The microspheres allow low-transmission of UV energy through the coating. 3M Ceramic Microspheres also help improve the viscosity and flow/leveling in E-beam coating applications.

8 Standard equipment for dispersing

- With high compression strength, 3M Ceramic Microspheres are less sensitive to the grind. For high-efficiency dispersers, severe, ball and roll mills are preferred. Equipment wear has been reported to be less than many improperly shaped or unshaped fillers of equal or lower hardness.

3M Ceramic Microspheres

<table>
<thead>
<tr>
<th>Application Benefits at a Glance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
</tr>
<tr>
<td>Benefits</td>
</tr>
<tr>
<td>Architectural coatings</td>
</tr>
<tr>
<td>- Durability</td>
</tr>
<tr>
<td>- Scrubability</td>
</tr>
<tr>
<td>- Higher PVC</td>
</tr>
<tr>
<td>- Improved burnish resistance</td>
</tr>
<tr>
<td>Powder coatings</td>
</tr>
<tr>
<td>- Improved flow</td>
</tr>
<tr>
<td>- Hardness</td>
</tr>
<tr>
<td>- Cost reduction</td>
</tr>
<tr>
<td>Water-reducible industrial finishes</td>
</tr>
<tr>
<td>- Increased volume solids</td>
</tr>
<tr>
<td>- Reduced film permeability</td>
</tr>
<tr>
<td>- Improved corrosion resistance</td>
</tr>
<tr>
<td>- Hardness</td>
</tr>
<tr>
<td>- Burnish resistance</td>
</tr>
<tr>
<td>- Durability</td>
</tr>
<tr>
<td>UV-cured coatings</td>
</tr>
<tr>
<td>- Coating efficiency</td>
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<tr>
<td>- Enhanced coating efficiency</td>
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</tbody>
</table>

3M Ceramic Microspheres Product Descriptions

<table>
<thead>
<tr>
<th>Product</th>
<th>Base FILM</th>
<th>Base Grade</th>
<th>Original Grade</th>
<th>밀도 (g/cc)</th>
<th>Color</th>
<th>Comments</th>
<th>Application Areas</th>
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<tbody>
<tr>
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<td>+6.00</td>
<td>2.6</td>
<td>2.5</td>
<td>14-16</td>
<td>Light</td>
<td>Light-colored, Maintenance, UV-cured coatings</td>
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<tr>
<td>W-210</td>
<td>+6.00</td>
<td>2.6</td>
<td>2.5</td>
<td>17-21</td>
<td>Light</td>
<td>Light-colored, Maintenance, High-loading, Industrial finishes</td>
<td></td>
</tr>
</tbody>
</table>

3M Ceramic Microspheres availability

- Mastics, grouts
- Maintenance paints for concrete surfaces
- UV-cured coatings
- Easy formulation, low viscosity, high solids powder coatings
- Factory-direct ordering, fast delivery
- Easy recirculation for spray and decorative finishing

Chemical storage tanks and anodizing lines present a cleaner, professional image while resisting harsh chemicals.
Other 3M™ Microspheres for specialty coatings

3M™ Microspheres are specialty products tailored for paint and powder coatings, other specialty applications, and for paint and powder coatings, 3M™ Microspheres are one in a family of 3M microspheres. They have the broadest application of paint and powder coatings. 3M™ Glass Bubbles, however, offer enhancements for specialties and can increase the level of solar energy reflection and increase emissivity of coatings. For dispersal, use low shear mixing equipment and add during the let-down stage. The following is an overview of product characteristics:

- They have the broadest application of specialty coatings, and low density roof coatings.
- They are used in a variety of product development and application situations.
- They are available in a variety of density and particle size ranges.
- They offer high strength and low strength.
- They are available in a variety of colors.
- They are available in a variety of sizes.
- They are available in a variety of shapes.
- They are available in a variety of forms.
- They are available in a variety of applications.
- They are available in a variety of methods.
- They are available in a variety of uses.
- They are available in a variety of ways.
- They are available in a variety of characteristics.
- They are available in a variety of functions.
- They are available in a variety of forms.
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Other 3M™ Microspheres for specialty coatings

3M™ Microspheres are supported by global sales, technical and customer service resources with fully-staffed technical service teams in the U.S., Europe, Japan, Latin America and South West Asia. Users benefit from 3M’s broad technology base and continuing ability to product development, performance, safety and environmental issues.

For additional technical information on 3M microspheres in the United States, visit 3M Energy and Advanced Materials Division, 800-367-8905. For other 3M global offices, and information on additional 3M products, visit our web site at: www.3M.com.

### 3M™ Glass Bubbles Product Descriptions

<table>
<thead>
<tr>
<th>Product #</th>
<th>Mass/volume</th>
<th>True Density</th>
<th>Crush Strength</th>
<th>Solar Reflectivity</th>
<th>Exterior Solar Reflectivity</th>
<th>Color</th>
<th>Application Ideas</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1 250</td>
<td>0.125</td>
<td>30</td>
<td>65</td>
<td>110</td>
<td>120</td>
<td>White</td>
<td>Most economical</td>
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<td>S15</td>
<td>0.15</td>
<td>25</td>
<td>55</td>
<td>90</td>
<td>95</td>
<td>White</td>
<td>Small particle size</td>
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<tr>
<td>S32</td>
<td>0.32</td>
<td>20</td>
<td>40</td>
<td>75</td>
<td>80</td>
<td>White</td>
<td>Smaller, tighter particle size range and higher strength than comparable “K” series</td>
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<tr>
<td>S60</td>
<td>0.60</td>
<td>15</td>
<td>30</td>
<td>55</td>
<td>65</td>
<td>White</td>
<td>High strength</td>
</tr>
<tr>
<td>K20</td>
<td>0.37</td>
<td>25</td>
<td>55</td>
<td>95</td>
<td>120</td>
<td>White</td>
<td>Can increase the level of solar energy reflection and increase emissivity of coatings Exterior solar reflectivity</td>
</tr>
<tr>
<td>S38HS</td>
<td>0.38</td>
<td>15</td>
<td>40</td>
<td>75</td>
<td>85</td>
<td>White</td>
<td>Smaller, tighter particle size range and higher strength than comparable “K” series Spray applications</td>
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<td>S60HS</td>
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<td>11</td>
<td>30</td>
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<td>0.60</td>
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<td>30</td>
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<td>Smaller, tighter particle size range and higher strength than comparable “K” series Spray applications</td>
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<tr>
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