Artificial Filler Material for Investment Casting

Filler Material for Primary Layer

CASFILL 90®

Al₂O₃ Content is 90%
Particle Size is less than 45 μm

Heat Resistance is higher than Zircon Flour
> More than SK38 (3360 F)

Bulk Density is 80% to Zircon Flour

Poured at High Temperature!
Reducing Production Cost!
Replacing Zircon Flour!

Artificial Refractory Ceramic Powder for Primary Layer
Great Replacement for Zircon Flour
**Artificial Filler Material for Primary Layer**

< Typical Data >

**CASFILL 90**

**Chemical Composition**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Al₂O₃</td>
<td>92.08</td>
</tr>
<tr>
<td>SiO₂</td>
<td>7.27</td>
</tr>
</tbody>
</table>

**Particle Size Distribution (-325 mesh)**

<table>
<thead>
<tr>
<th>μm</th>
<th>+45</th>
<th>45/30</th>
<th>30/20</th>
<th>20/10</th>
<th>10/5</th>
<th>5/1</th>
<th>−1</th>
</tr>
</thead>
<tbody>
<tr>
<td>%</td>
<td>0.5</td>
<td>8.0</td>
<td>23.5</td>
<td>25.6</td>
<td>22.3</td>
<td>19.8</td>
<td>0.2</td>
</tr>
</tbody>
</table>

**Bulk Density (Compared with zircon)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Particle Size</th>
<th>Bulk Density (g/cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASFILL 90</td>
<td>− 45 μm</td>
<td>1.80</td>
</tr>
<tr>
<td>Zircon Flour</td>
<td>− 45 μm</td>
<td>2.25</td>
</tr>
</tbody>
</table>

Bulk Density of CASFILL 90 is **80%** to Zircon Flour.

**Method**: Container Vibrated for 3 minutes

**Casting Quality achieved by combination of CASFILL 90 & WING CERABEADS**

![Combination of CASFILL 90 & WING CERABEADS](image)

The combination of CASFILL 90 & WING CERABEADS can save you production cost and achieve accurate dimensions of castings under higher pouring temperature compared with zircon sand!

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HP: [http://www.itc-cera.co.jp/English/index.html](http://www.itc-cera.co.jp/English/index.html)

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