## Product specification

**Expancel® DE Microspheres**

<table>
<thead>
<tr>
<th>Expancel® grade</th>
<th>Particle size D(0.5) (1) µm</th>
<th>True density (2) kg/m³</th>
<th>Solvent resistance (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>920 DET 20 d40</td>
<td>13–30</td>
<td>36–44</td>
<td>5</td>
</tr>
<tr>
<td>920 DE 40 d30</td>
<td>35–55</td>
<td>27–33</td>
<td>5</td>
</tr>
<tr>
<td>920 DET 40 d25</td>
<td>30–60</td>
<td>22–28</td>
<td>5</td>
</tr>
<tr>
<td>920 DE 80 d30</td>
<td>55–85</td>
<td>27–33</td>
<td>5</td>
</tr>
<tr>
<td>HP92 DET 80 d45</td>
<td>60–85</td>
<td>42–50</td>
<td>5</td>
</tr>
<tr>
<td>043 DET 80 d20</td>
<td>60–95</td>
<td>17–23</td>
<td>4</td>
</tr>
</tbody>
</table>

**New products:**

| 920 DE 20 d70         | 15–25                       | 64–76                  | 5                      |

### Product information

- **DE** = Dry powder of expanded Expancel® Microspheres
- Packed in cartons with 1, 4, 5 or 6 polyethylene bags, e.g. 4x3 kg 920 DET 40 d25. Volume of carton 1.15 m³, incl pallet
- Use the product within three years after production date, if unopened.
- Not all grades available in all locations. Check local sales office for availability.
To find out more about our microspheres,
visit our website:
nouryon.com/products/expancel-microspheres

or contact us at:
E: info.expancel@nouryon.com

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References

1) **Particle size** measured by laser diffraction; Low Angle Laser Light Scattering (LALLS). D(0.5) = average particle size.
   More information: “Particle size of Expancel® Microspheres”.

2) **Density** measured by pycnometer to ensure the specified density of expanded microspheres.
   More information: “Density measurements of Expancel® Microspheres”.

3) **Solvent resistance**: The microspheres are immersed in pure, liquid chemical or water solution of the chemical and tumbled for 24 h at 40°C (104°F). After drying the density is measured, and any discoloration is visually observed.
   More information: “Chemical resistance of Expancel® Microspheres”.

**Solvent resistance rating:**
5 = no unfavorable effects expected
4 = special care needed if mixed for prolonged periods or at elevated temperatures
3 = poor chemical resistance

These ratings are not conclusive. We recommend that you carry out your own tests with regard to the intended use of Expancel® Microspheres.