



Technical Data Sheet Expancel® WE Microspheres

Specification

(values presented on Certificate of Analysis)

Grade	Solid content ⁽¹⁾ %	True density ⁽²⁾ kg/m ³
920 WE 40 d24*	13–17	21–27
921 WE 40 d24	8.5–11.5	21–27

Typical characteristics

Particle size ⁽³⁾ D(0.5) µm	Solvent resistance ⁽⁴⁾
40	5
40	5

New product:

044 WE 20 d36	13–17	32–40
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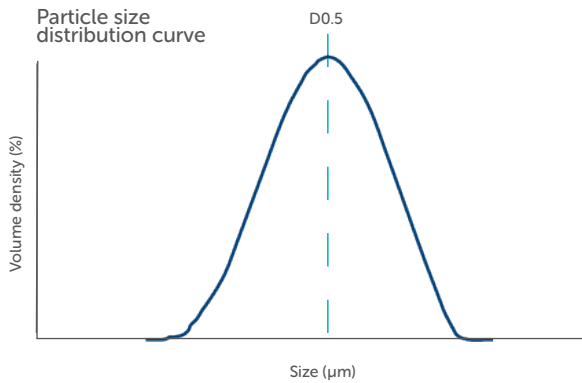
20	3
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Product information

- WE = Wet, expanded Expancel® microspheres
- Use the product within two years after production date, if unopened.
- Not all grades available in all locations. * 920 WE 40 d24 only available in China and the US.

References

- 1) **Solid content:** A weighed amount of Expancel® WE microspheres is dried in an oven at 50°C for 15 hours. The weight of the dried sample is used to calculate solid content.
- 2) **Density:** measured by pycnometer to ensure the specified density of expanded microspheres. More information: "Density measurements of Expancel® microspheres".
- 3) **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".



- 4) **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.

More information

To find out more about our microspheres, visit our website:

nouryon.com/products/expancel-microspheres



or contact us at:

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2024-02

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