



Technical Data Sheet Expancel® DE Microspheres

Specification

(values presented on Certificate of Analysis)

Expancel® grade	True density ⁽¹⁾ kg/m ³
920 DET 20 d40	36–44
920 DE 40 d30	27–33
920 DET 40 d25	22–28
920 DE 80 d30	27–33
HP92 DET 80 d45	42–50
043 DET 80 d20	17–23

New products:

920 DE 20 d70	64–76
044 DET 40 d25	22–28
044 DET 40 d40*	36–44

Typical characteristics

Particle size ⁽²⁾ D(0.5), µm	Solvent resistance ⁽³⁾	Treated with Silica
20	5	15 %
40	5	
40	5	15 %
80	5	
80	5	15 %
80	4	15 %

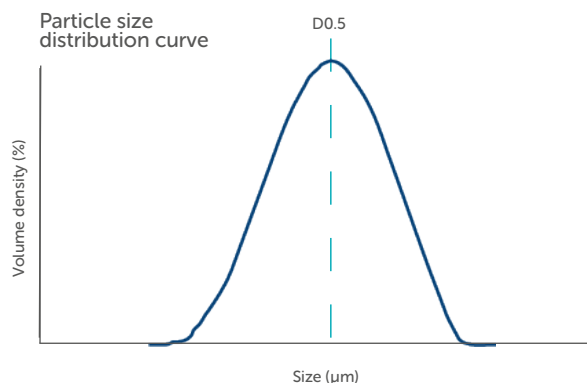
20	5	
40	4	15 %
40	4	15 %

Product information

- DE = Dry powder of expanded Expancel® microspheres
- Use the product within three years after production date, if unopened.
- Not all grades available in all locations. * 044 DET 40 d40 only available in the US.

References

- 1) **Density:** measured by pycnometer to ensure the specified density of expanded microspheres.
More information: "Density measurements of Expancel® microspheres".
- 2) **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".



- 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.

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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