



Technical Data Sheet Expancel[®] DU Microspheres

Specification

(values presented on Certificate of Analysis)

Expancel [®] grade	Thermomechanical Analysis ⁽¹⁾			Density kg/m ³	Particle size D(0.5) ⁽²⁾ µm
	Tstart °C	Tmax °C			
053 DU 40	95–102	136–144		≤ 20	10–16

Typical characteristic

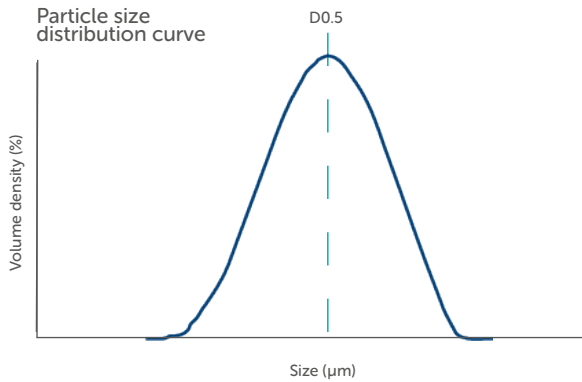
Solvent resistance ⁽³⁾
3

Product information

- DU = Dry powder of unexpanded Expancel[®] Microspheres
- Use the product within three years after production date, if unopened.

References

- 1) **Thermomechanical Analysis:** performed on a thermomechanical analyzer, measuring dimensional changes as a function of temperature.
More information: "Thermomechanical analysis 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 for 14 days at room temperature. TMA is used to determine the effects.
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:

E: info.expancel@nouryon.com



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2026-01

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