



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			
980 DU 100	169–189	209–229		≤ 14	20–30

Typical characteristic

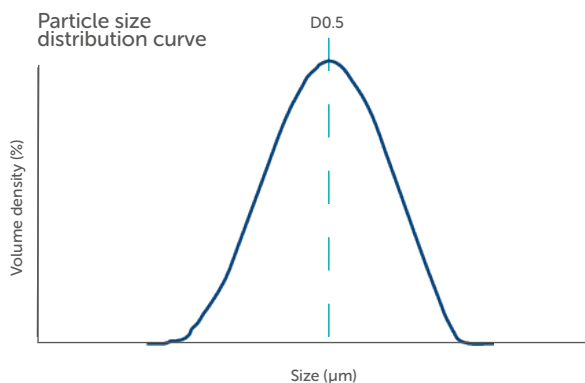
Solvent resistance ⁽³⁾
5

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



The information contained in this leaflet is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. Persons using the information must make their own determinations and assessments as to the suitability of the relevant information for their purposes prior to taking any action based on the information. Neither Nouryon nor any of its affiliates or representatives makes any representation or warranty, expressed or implied, as to the accuracy or completeness of this document or any of the information contained herein. Nouryon and its affiliates or representatives expressly disclaim to the fullest extent permitted by law any and all liability based, in whole or in part, on the document or any information contained herein.

2026-01

Nouryon, the Nouryon logo, and Expancel® microspheres are registered and/or owned trademarks of Nouryon.