



## Technical Data Sheet Expancel<sup>®</sup> DU Microspheres

### Specification

(values presented on Certificate of Analysis)

Expancel <sup>®</sup> grade	Thermomechanical Analysis <sup>(1)</sup>			Density kg/m <sup>3</sup>	Particle size D(0.5) <sup>(2)</sup> µm
	Tstart °C	Tmax °C			
043 DU 80	94–114	144–164		≤ 10	16–24

### Typical characteristic

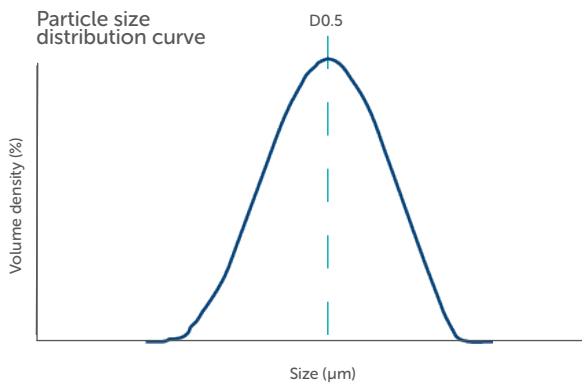
Solvent resistance <sup>(3)</sup>
5

### Product information

- DU = Dry powder of unexpanded Expancel<sup>®</sup> 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](https://nouryon.com/products/expancel-microspheres)



or contact us at:

E: [info.expancel@nouryon.com](mailto:info.expancel@nouryon.com)



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