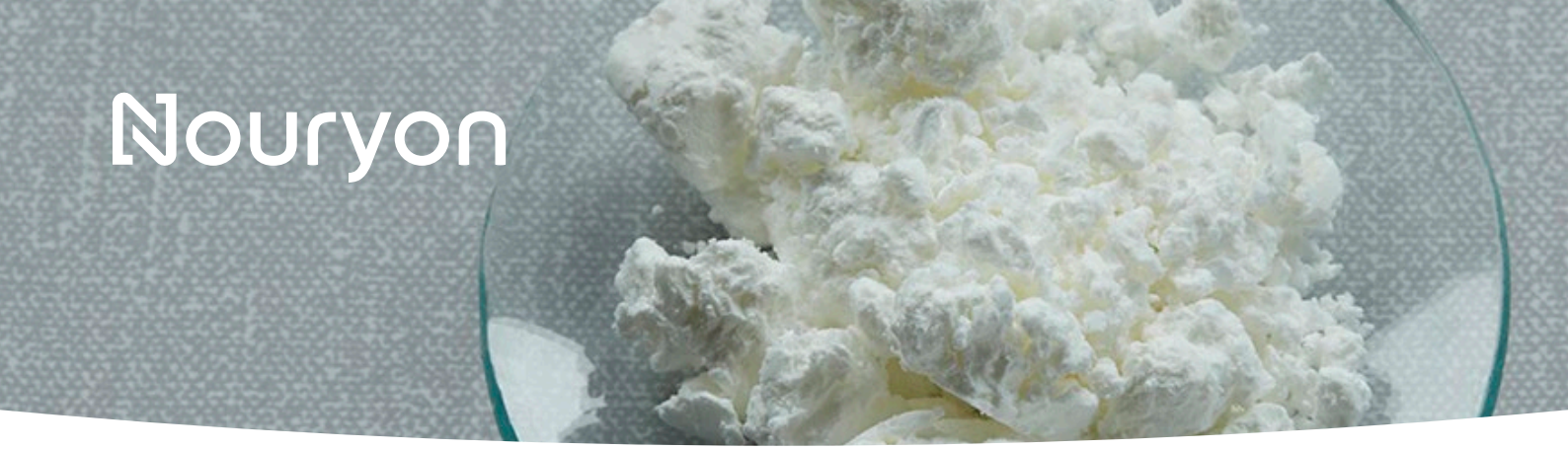

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Technical Data Sheet
Expancel® WE Microspheres

Specification
(values presented on Certificate of Analysis)

Typical characteristics

Grade	Solid content %	True density [1] kg/m³	Particle size[2] µm	True volume [3] l/kg	Solvent resistance [4]
920 WE 40 d24*	13–17	21–27	40	6.3	5
921 WE 40 d24	8.5–11.5	21–27	40	4.2	5
New product:					
044 WE 20 d36	13–17	32–42	20	4.2	3

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.

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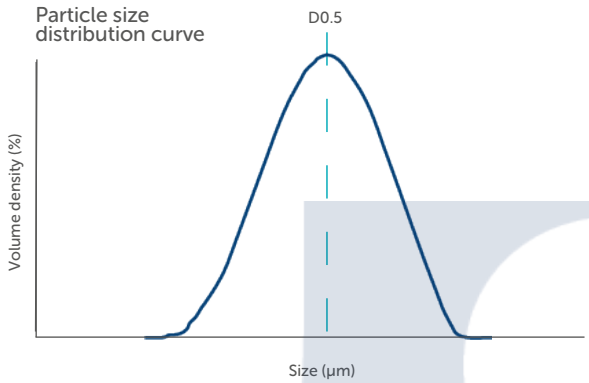
References

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) **True volume**: the correlation between solid content and density of microspheres.More information: "Analythical method no 22".
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:

2024-01

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.

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