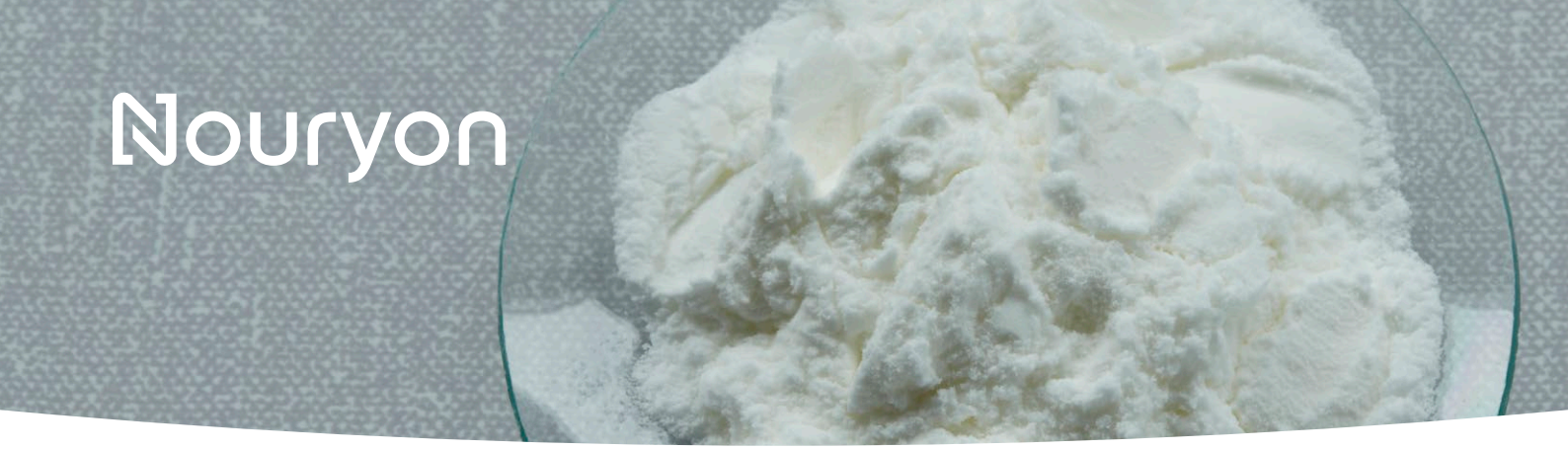

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# Technical Data Sheet
# Expancel® DE Microspheres

## Specification
(values presented on Certificate of Analysis)

## Typical characteristics

| Expancel® grade | True density [1] kg/m³ | Particle size[2] µm | Solvent resistance [3] |
|---|---|---|---|
| 920 DET 20 d40 | 36–44 | 20 | 5 |
| 920 DE 40 d30 | 27–33 | 40 | 5 |
| 920 DET 40 d25 | 22–28 | 40 | 5 |
| 920 DE 80 d30 | 27–33 | 80 | 5 |
| HP92 DET 80 d45 | 42–50 | 80 | 5 |
| 043 DET 80 d20 | 17–23 | 80 | 4 |
| **New products:** | | | |
| 920 DE 20 d70 | 64–76 | 20 | 5 |
| 044 DET 40 d25 | 22–28 | 40 | 4 |
| 044 DET 40 d40* | 36–44 | 40 | 4 |

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## 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.

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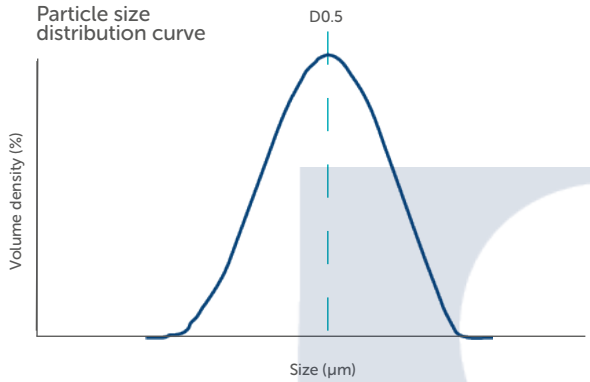
## References


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) **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:

RAJSHREE®



2024-01



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