

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

### Specification

(values presented on Certificate of Analysis)

| FG41 DU 80 <sup>(i)</sup>                       |                           |
|---|---------------------------|
| Particle size D(0.5): <sup>(1)</sup>            | 16–24 µm                  |
| <b>Thermomechanical Analysis <sup>(2)</sup></b> |                           |
| Tstart  | 93–103°C                  |
| Tmax  | 138–153°C                 |
| TMA-density                                     | ≤ 17 (kg/m <sup>3</sup> ) |
| <b>Residual substances</b>                      |                           |
| Acrylonitrile                                   | ≤ 1 (mg/kg)               |
| Methylacrylate                                  | ≤ 10 (mg/kg)              |
| Methacrylonitrile                               | ≤ 5 (mg/kg)               |
| Sodium 2-cyanoethanesulfonate                   | ≤ 50 (mg/kg)              |
| Sulfite   | ≤ 2000 (mg/kg)            |
| Sodium 3-methoxy-3-oxopropane- 1-sulfonate      | ≤ 50 (mg/kg)              |
| Hexadecanol                                     | ≤ 3000 (mg/kg)            |

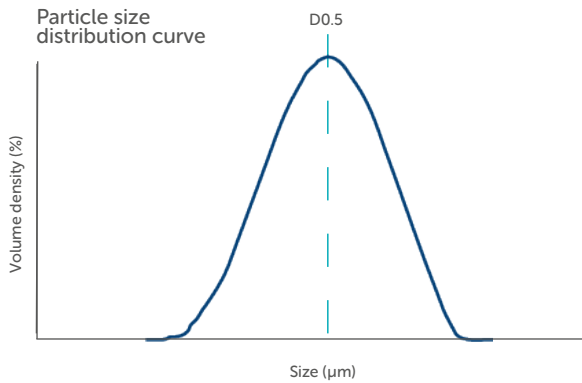
### Product information

- DU = Dry powder of unexpanded Expancel<sup>®</sup> microspheres
- Use the product within three years after production date, if unopened.

(i) FG41 DU 80 is approved by FDA (US Food and Drug Administration) for use in agglomerated cork.

## References

- 1) **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".



- 2) **Thermomechanical Analysis:** performed on a thermomechanical analyzer, measuring dimensional changes as a function of temperature.  
More information: "Thermomechanical analysis 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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