



# Technical Data Sheet

## Expancel<sup>®</sup> FG (DU) Microspheres

### Specification

(values presented on Certificate of Analysis)

	FG41 DU 80 <sup>(i)</sup>	FG92 DU 120
Particle size D(0.5): <sup>(1)</sup>	16–24 µm	28–38 µm
<b>Thermomechanical Analysis <sup>(2)</sup></b>		
Tstart	93–103°C	118–128°C
Tmax	138–153°C	191–203°C
TMA-density	≤ 17 (kg/m <sup>3</sup> )	≤ 14 (kg/m <sup>3</sup> )
<b>Residual substances</b>		
Acrylonitrile	≤ 1 (mg/kg)	≤ 30 (mg/kg)
Methylacrylate	≤ 10 (mg/kg)	
Methacrylonitrile	≤ 5 (mg/kg)	≤ 100 (mg/kg)
Sodium 2-cyanoethanesulfonate	≤ 50 (mg/kg)	≤ 200 (mg/kg)
Sulfite	≤ 2000 (mg/kg)	≤ 2000 (mg/kg)
Sodium 3-methoxy-3-oxopropane- 1-sulfonate	≤ 50 (mg/kg)	
Hexadecanol	≤ 3000 (mg/kg)	

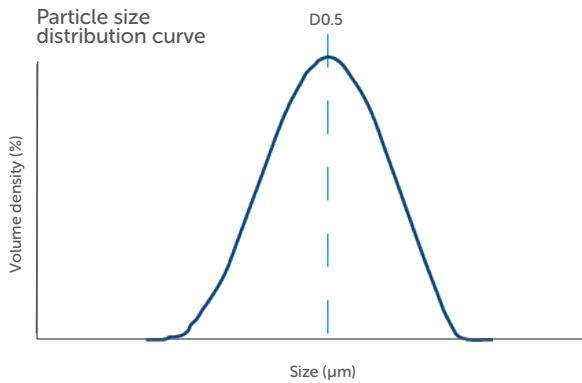
### Product information

- DU = Dry powder of unexpanded Expancel<sup>®</sup> microspheres
- Use the product within three years after production date, if unopened.
- Not all grades available in all locations. Check local sales office for availability.

(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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