



Product specification Expancel FG

	FG52 DU 80 ⁽ⁱ⁾	FG92 DU 120	FG92 MB 120
Particle size D80.5): ⁽¹⁾	16–24 µm	28–38 µm	
Thermomechanical Analysis ⁽²⁾			
Tstart	94–105°C	122–132°C	
Tmax		194–206°C	
TMA-density		≤ 14 (kg/m ³)	
Density at 140°C	≤ 25 (kg/m ³)		
Residual substances			
Acrylonitrile	≤ 1 (mg/kg)	≤ 30 (mg/kg)	≤ 20 (mg/kg)
Methylmethacrylate	≤ 400 (mg/kg)		
Methacrylonitrile		≤ 100 (mg/kg)	≤ 65 (mg/kg)
Sodium 2-cyanoethanesulfonate	≤ 50 (mg/kg)	≤ 200 (mg/kg)	≤ 130 (mg/kg)
Sulfite	≤ 2000 (mg/kg)	≤ 2000 (mg/kg)	≤ 1300 (mg/kg)
Vinylacetate			≤ 3500 (mg/kg)
2,6-Di-tert-butyl-p-cresol			≤ 260 (mg/kg)
Grade of Microsphere			FG92 DU 120
Concentration of MS (%)			65 ± 1
Carrier			EVA*
Height of foaming ⁽³⁾ (mm)			90–140 (200°C)
Bulk density (g/l)			400–500

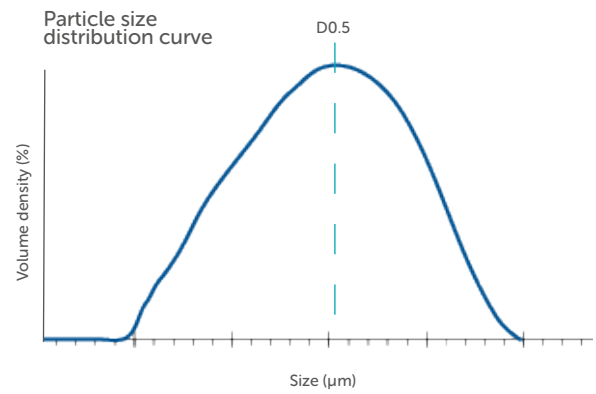
Product information

- Expancel DU = Dry powder of unexpanded Expancel Microspheres
- Expancel MB = Masterbatch of unexpanded Expancel Microspheres
- * EVA = Copolymer of ethylene vinylacetatekg.
- 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) FG52 DU 80 is approved by FDA (The US Food and Drug Administration) for use in agglomerated cork.

References

- 1) **Thermomechanical Analysis:** performed on a thermomechanical analyzer, measuring dimensional changes as a function of temperature.
More information: "Thermomechanical analysis of Expancel".
- 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".
- 3) **Height of foaming:** measurement of the height of foam, given by free expansion of Expancel MB. Performed in a conventional hot air oven.
More information: "Analytical Method QMS-56".



To find out more about our microspheres,
visit our website:
nouryon.com/products/expancel-microspheres

or contact us at:
E: info.expancel@nouryon.com



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.

Expancel® is a registered trademark of Nouryon in a number of territories worldwide.