



## Product Specification Expancel Microspheres

February, 2019 (replaces 2018.04)

# Expancel FG

	FG52 DU 80 <sup>(i)</sup>	FG92 DU 120	FG92 MB 120
Particle size D(0.5): <sup>(1)</sup>	16–24 µm	28–38 µm	

### Thermomechanical Analysis: <sup>(2)</sup>

Tstart	94–105°C	122–132°C	
Tmax		194–206°C	
TMA-density		≤ 14 [kg/m <sup>3</sup> ]	
Density at 140°C	≤ 25 [kg/m <sup>3</sup> ]		

### 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]

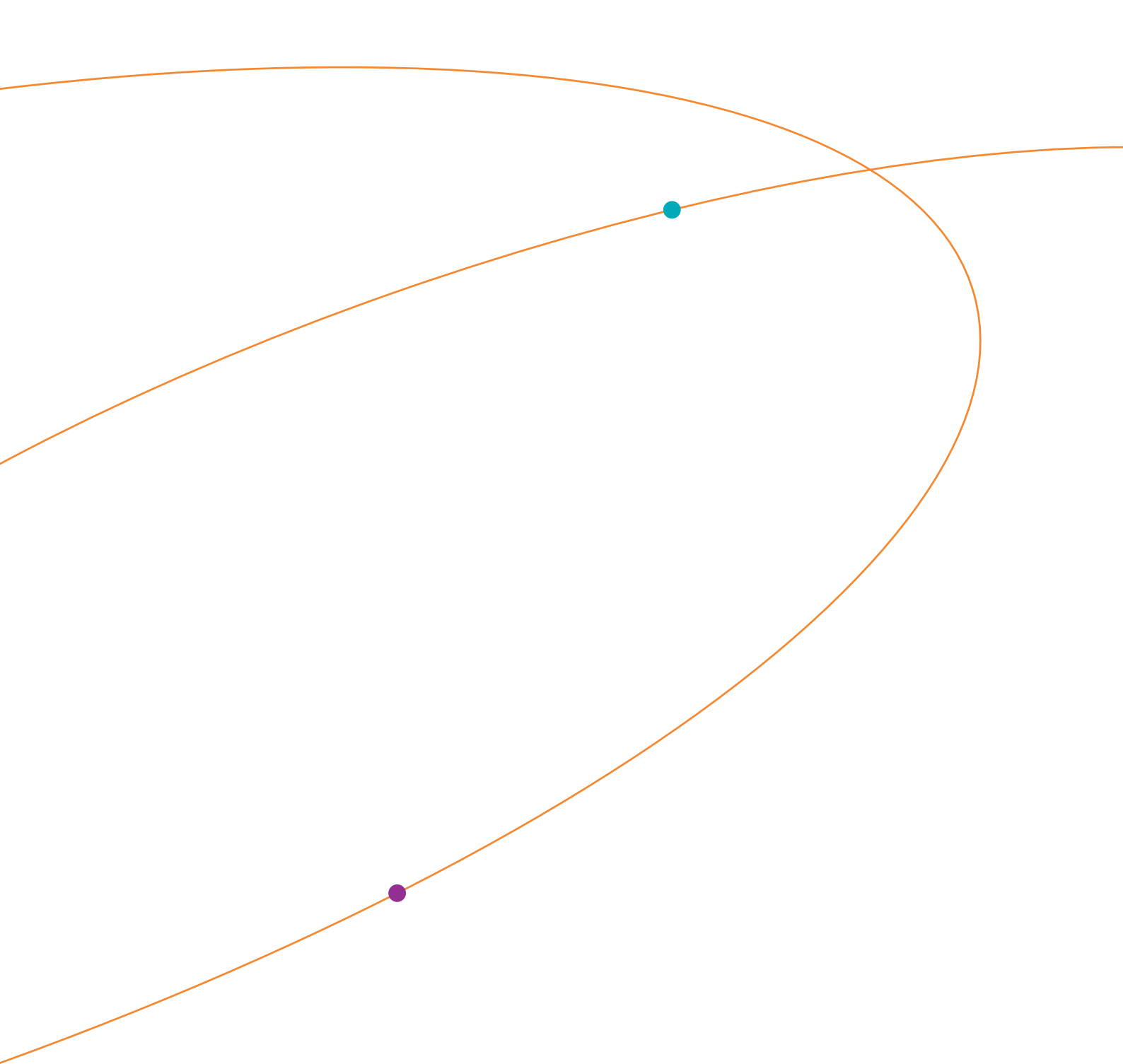
Grade of Microsphere	FG92 DU 120
Concentration of MS [%]	65 ± 1
Carrier	EVA *
Height of foaming <sup>(3)</sup> [mm]	90–140 (200°C)
Bulk density [g/l]	400–500

- Expancel DU = Dry Unexpanded Expancel Microspheres
- Expancel MB = Masterbatch with unexpanded Expancel MS.
- \* EVA = Copolymer of ethylene vinylacetate
- Use the product within three years after production date, if unopened.
- Not all products available in all locations. Check local sales office for availability.

(i) Expancel FG52 DU 80 is approved by FDA for use in agglomerated cork.

#### More information:

- 1) "Particle size of Expancel MS"
- 2) "Thermomechanical analysis of Expancel MS"
- 3) "Analytical Method QMS-56"

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For more information on our  
microspheres you can contact us at:

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