Technical Data Sheet Expancel® DU Microspheres

Specification

(values presented on Certificate of Analysis)

Thermomechanical Analysis (1) Expancel® grade Particle size D(0.5) (2) **Tstart** Tmax Density °C °C kg/m³ 031 DU 40 118-133 ≤ 12 80 - 9510 - 16053 DU 40 136-144 95-102 ≤ 20 10-16 051 DU 40 105-110 142-151 ≤ 25 9 - 15043 DU 80 94-114 144-164 16-24 < 10 920 DU 20 118-143 152-172 ≤ 25 5-9 920 DU 40 121-131 168-178 < 17 10-16 909 DU 80 118-128 172-187 < 10 18-24 177-192 920 DU 80 121-131 ≤ 14 18-24 HP92 DU 80 116-126 180-200 20-30 < 20 950 DU 80 136-146 188-200 < 12 18-24 093 DU 120 119-129 186-201 28-38 ≤ 6.5 951 DU 120 131-141 191-206 < 9 28 - 38930 DU 120 117-127 189-204 ≤ 6.5 28 - 38920 DU 120 118-128 191-203 ≤ 14 28-38 980 DU 100 209-229 169-189 ≤ 14 20-30

New products:

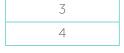
044 DU 2	0 100-10	143–160	≤ 25	6–9
044 DU 4	0 98–10	8 150–170	≤ 15	9–15

Product information

- DU = Dry powder of unexpanded Expancel® 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.

Typical characteristic

Solvent resistance ⁽³⁾				
3				
3				
4				
5				
5				
5				
5				
5				
5				
5				
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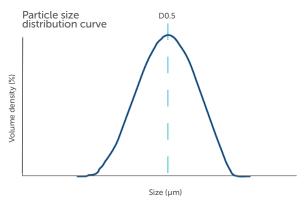
References

 Thermomechanical Analysis: performed on a thermomechanical analyzer, measuring dimensional changes as a function of temperature.
 More information: "Thermomechanical analysis 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 for 14 days at room temperature. TMA is used to determine the effects.

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:

nouryon.com/products/expancel-microspheres



or contact us at:

E: info.expancel@nouryon.com



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