

Technical Data Sheet Expancel® DU Microspheres

Specification

(values presented on Certificate of Analysis)

Expancel® grade Thermomechanical Analysis (1) Particle size **Tstart** Tmax Density D(0.5) (2) °C °C kg/m³ 031 DU 40 80-95 118-133 ≤ 12 10-16 053 DU 40 136-144 95-102 < 20 10-16 051 DU 40 105-110 142-151 ≤ 25 9 - 15044 DU 20 100-108 143-160 ≤ 25 6-9 043 DU 80 94-114 144-164 16-24 ≤ 10 044 DU 40 98-108 150-170 9 - 15≤ 15 920 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 18-24 < 8 920 DU 80 121-131 177-192 < 14 18 - 24HP92 DU 80 116-126 180-200 ≤ 20 20 - 30950 DU 80 136-146 188-200 18-24 ≤ 10 093 DU 120 119-129 186-201 < 6.5 28-38 951 DU 120 131-141 191-206 ≤ 9 28 - 38930 DU 120 117-127 189-204 < 6.5 28-38 920 DU 120 118-128 191-203 ≤ 14 28-38 169-189 980 DU 100 209-229 ≤ 14 20-30

New products:

WB95 DU 120	130-142	191–206	≤ 9	28-38
WB96 DU 120	130-140	190-210	≤ 10	28-38

Typical characteristic

Solvent resistance (3)
3
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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.



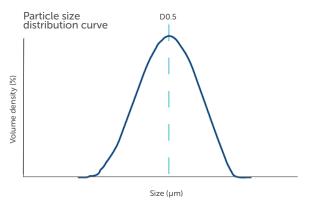
References

 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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