



## Product specification Expancel DU

Expancel	Thermomechanical Analysis <sup>(1)</sup>			Particle size D(0.5) <sup>(2)</sup> µm	Solvent resistance <sup>(3)</sup>
	Tmax °C	Tstart °C	Density kg/m <sup>3</sup>		
031 DU 40	120–135	80–95	≤ 12	10–16	3
053 DU 40	138–146	96–103	≤ 20	10–16	3
551 DU 40	141–149	94–99	≤ 17	9–15	3
461 DU 20	143–151	100–106	≤ 30	6–9	4
461 DU 40	144–152	98–104	≤ 20	9–15	4
051 DU 40	144–153	106–111	≤ 25	9–15	4
043 DU 80	147–167	95–115	≤ 10	16–24	5
920 DU 20	155–175	120–145	≤ 25	5–9	5
920 DU 40	168–178	123–133	≤ 17	10–16	5
909 DU 80	175–190	120–130	≤ 10	18–24	5
920 DU 80	180–195	123–133	≤ 14	18–24	5
950 DU 80	188–200	138–148	≤ 12	18–24	5
093 DU 120	189–204	120–130	≤ 6.5	28–38	5
951 DU 120	190–205	133–143	≤ 9	28–38	5
930 DU 120	192–207	122–132	≤ 6,5	28–38	5
920 DU 120	194–206	122–132	≤ 14	28–38	5

### New product:

980 DU 100	215–235	170–185	≤ 14	20–30	5
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### Product information

- Expancel DU = Dry powder of unexpanded Expancel Microspheres
- Delivered in FIBC 500 kg, or in fibre drums net weight 50 kg.
- 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

- 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) **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".

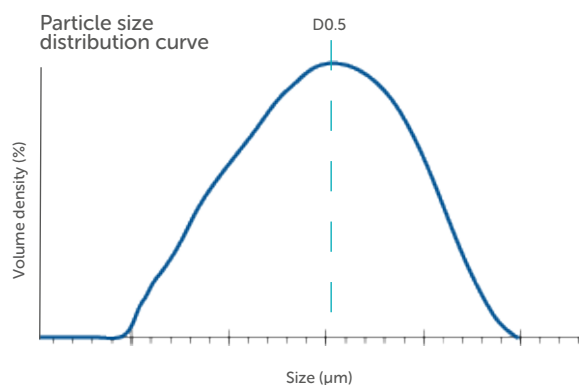
### Solvent resistance rating:

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.



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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