



Product specification Expancel DU

| Expancel | Thermomechanical Analysis ⁽¹⁾ | | | Particle size D(0.5) ⁽²⁾ µm | Solvent resistance ⁽³⁾ |
|------------|--|--------------|------------------------------|--|--------------------------------------|
| | Tmax °C | Tstart °C | Density kg/m ³ | | |
| 031 DU 40 | 120–135 | 80–95 | ≤ 12 | 10–16 | 3 |
| 053 DU 40 | 138–146 | 96–103 | ≤ 20 | 10–16 | 3 |
| 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 |
|------------|---------|---------|------|-------|---|

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.

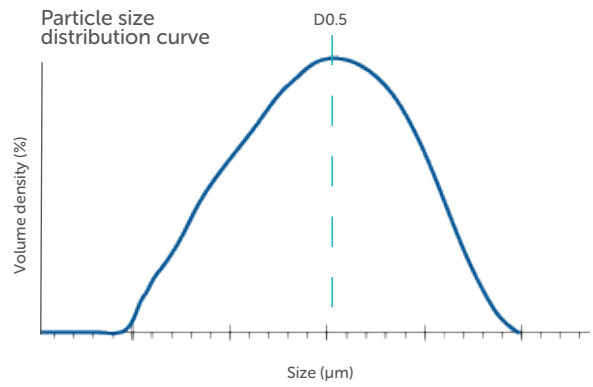
References

- 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

or contact us at:
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