



Product Specification Expancel Microspheres

January, 2021 (replaces 2020.09)

Expancel WU

| Expancel | Thermomechanical Analysis ⁽²⁾ | | | Dry content % | Particle Size ⁽¹⁾ D(0.5) µm |
|------------|--|---------------|------------------------------|------------------|--|
| | Tmax, °C | Tstart, °C | Density kg/m ³ | | |
| 031 WUF 40 | 120–135 | 80–95 | ≤ 12 | 73.5–78.5 | 10–16 |
| 642 WU 40 | 127–135 | 87–93 | ≤ 17 | 72.5–77.5 | 10–16 |
| 007 WU 40 | 138–143 | 91–99 | ≤ 15 | 68.5–73.5 | 10–16 |
| 007 WUF 40 | 138–143 | 91–99 | ≤ 15 | 68.5–73.5 | 10–16 |
| 053 WU 40 | 138–146 | 96–103 | ≤ 20 | 68.5–73.5 | 10–16 |
| 551 WU 40 | 141–149 | 94–99 | ≤ 17 | 68.5–73.5 | 9–15 |
| 461 WU 20 | 143–151 | 100–106 | ≤ 30 | 65.5–70.5 | 6–9 |
| 461 WU 40 | 144–152 | 98–104 | ≤ 20 | 65.5–70.5 | 9–15 |
| 043 WU 80 | 147–167 | 95–115 | ≤ 10 | 67–75 | 16–24 |
| 920 WUF 40 | 168–178 | 123–133 | ≤ 17 | 68.5–73.5 | 10–16 |
| 909 WU 80 | 175–190 | 120–130 | ≤ 10 | 68.5–73.5 | 18–24 |

- Expancel WU = Wet Unexpanded Expancel Microspheres
- Delivered as a wet cake in fibre drums, net weight 50 to 70 kg or in IBC 400 to 500 kg
- Use the product within two years after production date, if unopened.
- Not all grades available in all locations. Check local sales office for availability.

More information:

- 1) "Particle size of Expancel MS"
- 2) "Thermomechanical analysis of Expancel MS"



Expancel® Microspheres is the world's favorite secret ingredient. You can find it in all your everyday essentials – your car, your shoes, the cork that protects your wine. It helps product developers worldwide expand their business, enabling them to reduce weight, cut costs, improve quality and create unique finishes. Expancel has dual functionality as a blowing agent and lightweight filler. The microspheres consist of a thermoplastic shell encapsulating a gas. Add heat and they expand dramatically, up to 60 times their original volume. The product is supported by unmatched technology know-how, ensuring smooth integration into any process. Expancel is a trademark within Nouryon – a world leading provider of expandable microspheres.

nouryon.com/products/expancel-microspheres

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

E: info.expancel@nouryon.com

Nouryon

Expancel
Box 13000
SE-850 13 Sundsvall
Sweden
T: +46-60 13 40 00

Nouryon

We are a global specialty chemicals leader. Industries worldwide rely on our essential chemistry in the manufacture of everyday products such as paper, plastics, building materials, food, pharmaceuticals, and personal care items. Building on our nearly 400-year history, the dedication of our 10,000 employees, and our shared commitment to business growth, strong financial performance, safety, sustainability, and innovation, we have established a world class business and built strong partnerships with our customers. We operate in over 80 countries around the world and our portfolio of industry leading brands includes Eka, Dissolvine, Trigonox, and Expancel.

nouryon.com

© Nouryon. All rights reserved.