

Expancel DET

Dry, expanded thermoplastic microspheres

Expancel	Particle Size µm D(0.5)	True Density kg/m ³	Chemical Resistance
461 DET 20 d70	15-25	70 ±3	4
461 DET 40 d25	35-55	25 ±3	4
461 DET 40 d42	35-55	42 ±3	4
461 DET 40 d60	35-55	60 ±3	4
043 DET 80 d20	60-95	20 ±3	4
920 DET 40 d25	30-60	25 ±3	5
920 DET 40 d30	30-60	30 ±3	5
920 DET 80 d30	55-85	30 ±3	5

Manufacture

Expancel DET Microspheres are made in Britain by Boud Minerals Limited.

Handling

For more detailed instructions on how to handle our microspheres, please contact us. We have decades of experience and have over the years developed products to help our customers handle Expancel safely and efficiently. This includes our pre-wetted Microspheres 806, 939 and 941 for completely dust-free handling. We also offer bespoke blends, packaging and kit assembly.

Technical Information

To learn more about the properties and applications of our microspheres please refer to the Expancel DET Technical Guide.

Shelf Life

Use the product within three years, if unopened.

Commodity Code

3906 909090

Packing

Please refer to the relevant price list for details of our standard packaging.

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Expancel DE

Dry, expanded thermoplastic microspheres

Expancel	Particle Size $\mu\text{m D}(0.5)$	True Density kg/m^3	Solvent Resistance
461 DE 20 d70	15-25	70 ± 6	4
461 DE 40 d60	20-40	60 ± 5	4
551 DE 40 d42	25-50	42 ± 4	3
920 DE 40 d30	30-60	30 ± 3	5
920 DE 80 d30	55-85	30 ± 3	5

Packing

Cartons with 1, 4, 5 or 6 polyethylene bags e.g. 4 x 5kg.

Volume of cartons 1.15m², including pallet.

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Expancel DU

Dry, unexpanded thermoplastic microspheres

Expancel	Particle Size	Thermomechanical Analysis			Solvent
	µm D(0.5)	Tstart °C	Tmax °C	Density kg/m ³	Resistance
551 DU 40	9-15	94-99	141-149	≤ 17	3
461 DU 20	6-9	100-106	143-151	≤ 30	4
461 DU 40	9-15	100-107	144-152	≤ 20	4
031 DU 40	10-16	80-95	120-135	≤ 12	3
043 DU 80	16-24	95-115	147-167	≤ 10	5
051 DU 40	9-15	106-111	144-153	≤ 25	4
053 DU 40	10-16	96-103	138-146	≤ 20	3
093 DU 120	28-38	120-130	189-204	≤ 6.5	5
909 DU 80	18-24	120-130	175-190	≤ 10	5
920 DU 20	5-9	120-145	155-175	≤ 25	5
920 DU 40	10-16	123-133	168-178	≤ 17	5
920 DU 80	18-24	123-133	180-195	≤ 14	5
920 DU 120	28-38	122-132	194-206	≤ 14	5
930 DU 120	28-38	122-132	192-207	≤ 6.5	5
950 DU 80	18-24	138-148	188-200	≤ 12	5
951 DU 120	28-38	133-143	190-205	≤ 9	5
980 DU 120	25-40	158-178	215-235	≤ 14	5

Packing

Delivered in fibre drums.

Net weight 50kg or in big bags 500kg.

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Expancel MB

Masterbatch with unexpanded thermoplastic microspheres

Expancel	Grade of Microsphere	Concentration of Microsphere	Carrier	Height of foaming (mm)	Bulk Density (g/l)
920 MB 120	920-120	65 $\pm$ 1	EVA*	90-140 (200°C)	400-500
930 MB 120	930-120	65 $\pm$ 1	EVA*	100-150 (200°C)	400-500
950 MB 80	950-80	65 $\pm$ 1	EVA*	90-130 (210°C)	400-500
951 MB 120	951-120	65 $\pm$ 1	EVA*	100-150 (210°C)	400-500
980 MB 120	980-120	65 $\pm$ 1	EVA*	70-110 (210°C)	400-500

*EVA = Copolymer of ethylene vinylacetate

Expancel SL

Unexpanded thermoplastic microspheres in aqueous dispersion

Expancel	Microsphere content, %	Particle Size µm D(0.5)	Thermomechanical Analysis		
			Tstart °C	Tmax °C	Density kg/m ³
820 SL 40	40	10-16	85-95	115-125	< 25
820 SLU 40	44	10-16	85-95	115-125	< 25

Delivered as slurry in 1m³ containers.

SLU means that no salt (NaCl) has been added to the slurry.

The addition of salt will further decrease the expansion temperature by approximately 8-10°C.

Expancel WE

Wet expanded thermoplastic microspheres

Expancel	Estimated Particle Size $\mu\text{m D}(0.5)$	Solid Content %	True Density kg/m^3	True Volume l/kg	Solvent Resistance
461 WE 20 d36	20-30	15 $\pm$ 2	36 $\pm$ 4	4.2 $\pm$ 0.45	3
461 WE 40 d36	30-50	15 $\pm$ 2	36 $\pm$ 4	4.2 $\pm$ 0.45	3
921 WE 40 d24	35-55	10 $\pm$ 1.5	24 $\pm$ 3	4.2 $\pm$ 0.45	5

Packing

Packed on pallets in 20 polyethylene bags. Each bag with a net weight of 10kg. Volume approx.. 1.5m^3 incl. pallet.

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Expancel WU

Wet unexpanded thermoplastic microspheres

Expancel	Dry Content	Particle Size	Thermomechanical Analysis		
	%	µm D(0.5)	Tstart °C	Tmax °C	Density kg/m ³
642 WU 40	71 ±2.5	10-16	87-93	127-135	≤ 17
551 WU 40	71 ±2.5	9-15	94-99	141-149	≤ 17
461 WU 20	68 ±2.5	6-9	100-106	143-151	≤ 30
461 WU 40	68 ±2.5	9-15	100-107	144-152	≤ 30
007 WU 40	71 ±2.5	10-16	91-99	138-143	≤ 15
007 WUF 40	71 ±2.5	10-16	91-99	138-143	≤ 15
031 WUF 40	76 ±2.5	10-16	80-95	120-135	≤ 12
053 WU 40	76 ±2.5	10-16	96-103	138-146	≤ 20
909 WU 80	71 ±2.5	18-24	120-130	175-190	≤ 10
043 WU 80	67-75	16-24	95-115	147-167	≤ 10
920 WUF 40	71 ±2.5	10-16	123-133	168-178	≤ 17

Packing

Delivered as a wet cake in fibre drums.

Net weight 50 to 70kg or in IBC 400 - 500kg.

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