

Expancel 920 DET

Dry, expanded thermoplastic microspheres

Expancel	Particle Size µm D(0.5)	True Density kg/m ³	Chemical Resistance
920 DET 40 d25	35-55	25 ₊₃	5
920 DET 40 d30	35-55	30 ₊₃	5
920 DET 80 d30	55-85	30 ₊₃	5

Expancel 920 DET is produced in the UK by Boud Minerals to different densities; including some tailored to a customer's specific application and some not available before.

Expancel 920 DET is used in processes where no, or insufficient, heat for expansion is generated during production.

Expancel 920 DET 40 is recommended as a general grade, when higher chemical and temperature resistance is needed and small particle size for good surface properties (smoothness) is important.

Expancel 920 DET 80 is recommended when very good chemical, mechanical and temperature resistance is needed and particle size is less important.

With its extremely low density, Expancel DET can be difficult to handle. Boud Minerals produce BML Microspheres, pre-wetted versions of our Expancel DET grades, that are much easier to handle and to disperse. Expancel 920 DET 40 d30 is available as BML Microspheres 941 and Expancel 920 DET 80 d30 is available as BML Microspheres 939.

Boud Minerals also produce custom blends to provide unique properties. Expancel 920 DET can be blended with our Hollow Glass Spheres, Cenospheres, dry powders or liquids in bespoke packing sizes.

Information about the properties and applications of Expancel 920 DET 40 can be found in our Expancel DET Technical Guide.

Commodity Code

3906 9090

Packing

920 DET 40 d25 - 12 kilo cartons containing 4 x 3kg bags
920 DET 40 d30 - 12 kilo cartons containing 4 x 3kg bags
920 DET 80 d30 - 12 kilo cartons containing 5 x 3kg bags

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All information is given in good faith but is indicative only and does not constitute a specification.

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Expancel 461 DET

Dry, expanded thermoplastic microspheres

Expancel	Particle Size µm D(0.5)	True Density kg/m ³	Chemical Resistance
461 DET 40 d25	35-55	25 ₊₃	4
461 DET 40 d42	35-55	42 ₊₃	4
461 DET 40 d60	35-55	42 ₊₃	4

Expancel 461 DET is produced in the UK by Boud Minerals to different densities; including some not available before.

Expancel 461 DET is used in processes where no, or insufficient, heat for expansion is generated during production.

Expancel 461 DET is recommended as a general purpose grade, when chemical and temperature resistance is not critical to the performance of your product.

With its extremely low density, Expancel DET can be difficult to handle. Boud Minerals produce BML Microspheres, pre-wetted versions of our Expancel DET grades, that are much easier to handle and to disperse. Expancel 461 DET 40 d42 is available as BML Microspheres 806.

Boud Minerals also produce custom blends to provide unique properties. Expancel 461 DET can be blended with our Hollow Glass Spheres, Cenospheres, dry powders or liquids in bespoke packing sizes.

Information about the properties and applications of Expancel 461 DET can be found in our Expancel DET Technical Guide.

Commodity Code

3906 9090

Packing

461 DET 40 d25 - 12 kilo cartons containing 4 x 3kg bags

461 DET 40 d42 - 20 kilo cartons containing 4 x 5kg bags

461 DET 40 d60 - 30 kilo cartons containing 6 x 5kg bags

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Expancel DE

Dry, expanded thermoplastic microspheres

Expancel	Particle Size µm D(0.5)	True Density kg/m ³	Solvent Resistance
043 DET 80 d20	60-95	20+3	4
461 DE 20 d70	15-25	70+6	4
461 DE 40 d60	20-40	60+5	4
461 DET 40 d25	35-55	25+3	4
551 DE 40 d42	30-50	42+4	3
920 DE 40 d30	35-55	30+3	5
920 DET 40 d25	30-60	25+3	5
920 DE 80 d30	55-85	30+3	5

Packing

Cartons with 1, 4, 5 or 6 polyethylene bags eg 4 x 5kg.
Volume of cartons 1.15m³, 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	10- 16	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	108 - 113	142 - 151	≤ 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	197 - 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- 173	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 to 10°C.

Expancel WE

Wet expanded thermoplastic microspheres

Expancel	Estimated Particle Size µm 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 1.5m³ incl pallet.

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Expancel WU

Wet unexpanded thermoplastic microspheres

Expancel	Dry Content %	Particle Size µm D(0.5)	Thermomechanical Analysis		
			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	10- 16	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- 117	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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