

Lithium Borate Fluxes

Versatile fluxes to support fusion applications

Environmental Express Katanax provides a full range of high-quality, high-purity fusion fluxes for use with our top of the line fluxer. Available in multiple forms and grades to support any sample preparation need.

Outstanding purity

- Manufacturing process located in a cleanroom—no external contamination
- Composed of the highest purity grade raw material on the market—minimal traces
- Less than 0.05% impurity
- Available in pure analytical (99.99% purity) and ultra-pure (99.998+% purity) grades

Pre-fused

- Totally homogenous—every particle has identical composition

Non-wetting agent fused right in

- Optional lithium bromide (LiBr) or iodide (LiI) can be pre-fused in the flux reducing weighing times and increasing analytical accuracy



Micro-bead form

- Spherical flux particles limits hygroscopic properties and water absorption to prevent humidity absorption
- Absence of dust particles eliminating error from flux losses on weighing containers
- High density form that eliminates crucible overflows

Granular form

- Optimal mixing properties—the sample adheres to the crystals, preventing layer segregation
- Crystallin uniformity eliminates popcorn effect potential from phase shift
- High density to prevent crucible overflows

Custom blends

- Blends can be adjusted to meet your samples specific requirements
- Additives can be mechanically mixed to specification (e.g.: 4%LiNO₃)

Pre-weighed sachet

- Reduce technician workload and save time by removing time intensive preparation steps
- Reduce potential for technician error and increase the precision of your analytical results
- Available for all blends and custom blends
- Precision up to +/- 1 mg



Flux composition and form ordering options

Description (1 kg bottle)	Composition					Flux Form	Item number	
	LiT %	LiM %	LiBr %	LiI %	NaT %		Pure (99.99%)	Ultra-pure (99.998%)
LiT	100.00	-	-	-	-	Micro-beads	KP3007P (FFB-1000-02)	KP3007UP (FFB-1000-03)
						Granular	KP3507P	-
LiT/LiI 99.90/0.10	99.90	-	-	0.10	-	Micro-beads	KP3018P	KP3018UP
						Granular	KP3518P	-
LiT/LiBr 99.50/0.50	99.50	-	0.50	-	-	Micro-beads	KP3001P (FFB-1005-02)	KP3001UP (FFB-1005-03)
						Granular	KP3501P	-
LiT/LiI 99.50/0.50	99.50	-	-	0.50	-	Micro-beads	KP3016P (FFB-1007-02)	KP3016UP (FFB-1007-03)
						Granular	KP3516P	-
LiT/LiM/LiBr 66.67/32.83/0.50	66.67	32.83	0.50	-	-	Micro-beads	KP3003P (FFB-6705-02)	KP3003UP (FFB-6705-03)
						Granular	KP3503P	-
LiT/LiM/LiI 66.67/32.83/0.50	66.67	32.83	-	0.50	-	Micro-beads	KP3011P (FFB-6707-02-UK)	-
LiT/LiM/LiI 66.60/33.30/0.10	66.60	33.30	-	0.10	-	Micro-beads	KP3020P	KP3020UP
						Granular	KP3520P	-
LiT/LiM 66/34	66.00	34.00	-	-	-	Micro-beads	KP3009P (FFB-6700-02)	KP3009UP (FFB-6700-03)
						Granular	KP3509P	-
LiT/LiM/LiI 65.67/33.83/0.50	65.67	33.83	-	0.50	-	Micro-beads	KP3015P (FFB-6707-02)	KP3015UP (FFB-6707-03)
						Granular	KP3515P	-
LiT/LiM 50/50	50.00	50.00	-	-	-	Micro-beads	KP3008P (FFB-5000-02)	KP3008UP (FFB-5000-03)
						Granular	KP3508P	-
LiT/LiM/LiI 49.95/49.95/0.10	49.95	49.95	-	0.10	-	Micro-beads	KP3019P	KP3019UP
						Granular	KP3519P	-
LiT/LiM/LiBr 49.75/49.75/0.50	49.75	49.75	0.50	-	-	Micro-beads	KP3002P (FFB-5005-02)	KP3002UP (FFB-5005-03)
						Granular	KP3502P	-
LiT/LiM/LiI 49.75/49.75/0.50	49.75	49.75	-	0.50	-	Micro-beads	KP3014P (FFB-5007-02)	KP3014UP (FFB-5007-03)
						Granular	KP3514P	-
LiT/LiM/LiI 49.50/49.50/1.00	49.50	49.50	-	1.00	-	Micro-beads	KP3012P (FFB-5010-02)	-

LiT = Lithium tetraborate ($\text{Li}_2\text{B}_4\text{O}_7$)
 LiM = Lithium metaborate (LiBO_2)
 LiBr = Lithium bromide
 LiI = Lithium iodide
 NaT = Sodium tetraborate ($\text{Na}_2\text{B}_4\text{O}_7$)

Description (1 kg bottle)	Composition					Flux Form	Item number	
	LiT %	LiM %	LiBr %	LiI %	NaT %		Pure (99.99%)	Ultra-pure (99.998%)
LiT/LiM 35/65 ("12:22")	35.00	65.00	-	-	-	Micro-beads	KP3010P (FFB-3500-02)	KP3010UP (FFB-3500-03)
						Granular	KP3510P	-
LiT/LiM/LiI 34.95/64.95/0.10	34.95	64.95	-	0.10	-	Micro-beads	KP3021P	KP3021UP
						Granular	KP3521P	-
LiT/LiM/LiBr 34.83/64.67/0.50	34.83	64.67	0.50	-	-	Micro-beads	KP3004P (FFB-3505-02)	KP3004UP (FFB-3505-03)
						Granular	KP3504P	-
LiM	-	100.00	-	-	-	Micro-beads	KP3006P (FFB-0000-02)	KP3006UP (FFB-0000-03)
						Granular	KP3506P	-
LiM/LiI 99.90/0.10	-	99.90	-	0.10	-	Micro-beads	KP3017P	KP3017UP
						Granular	KP3517P	-
LiM/LiBr 99.50/0.50	-	99.50	0.50	-	-	Micro-beads	KP3000P (FFB-0005-02)	KP3000UP (FFB-0005-03)
						Granular	KP3500P	-
LiM/LiBr 98.50/1.50	-	98.50	1.50	-	-	Micro-beads	KP3005P (FFB-0007-02)	KP3005UP (FFB-0007-03)
						Granular	KP3505P	-
NaT	-	-	-	-	100.00	Granular	KP3600P	-

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Non-wetting and fluidizing agents (all ultra-pure)

Description	Composition	Item number
LiBr	125 g crystals	KP4000P
LiBr	15 mL solution	KP4001P
LiI	15 mL solution	KP4004P

Oxidizers (all ultra-pure)

Description	Composition	Item number
LiNO_3	500 g crystals	KP4008P

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MM03116 Rev 2

