

CERTIFIED  
REFERENCE  
MATERIALS

# FUSION FLUXES & ADDITIVES



## FUSION

SPEX CertiPrep is the industry leader for over 60 years in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research.

**Fusion is an extremely effective method to prepare oxides, sulfides, fluorides, ferroalloys, and other metals for analysis by XRF, AA, ICP, DCP, etc.** The samples are (if necessary) pulverized and mixed with a flux; this mixture is heated until the flux melts and the sample dissolves in it, yielding a clear, homogeneous melt. The melt can be cast as a glass disc for XRF or dissolved in dilute acids for analysis in solution form. In many cases fusion fluxing is simpler and the analytical results more accurate than if the sample was prepared by conventional acid dissolution or pressed powder methods. SPEX CertiPrep has a line of Pure and Ultra-Pure Fusion Fluxes and additives. Both lines are of a high purity, with the ultra pure line having a purity of 99.998%. These fluxes are made from a "Micro Bead" formula that ensures the same ratio of components is in each bead with no harmful dust to clog your instruments. Our highly standardized manufacturing process produces identical batches with no appreciable lot to lot variations, thus maintaining a high level of consistency and quality.

### ■ Benefits of SPEXFusionFlux

- Pre-fused with additives for better accuracy.
- Micro Beads eliminate dust that clogs equipment.
- Micro Beads also cut down on weighing time.
- Consistency - Each bead has the same components in the exact same ratio.
- Every batch of SPEX CertiPrep Flux is identical with no analytically significant variation between lots.
- Our Ultra-Pure line is the purest on the market at 99.998%.

### SPEX SamplePrep Electric Fluxers

- Completely independent heater for crucible and mold for optimal temperature control and homogenization.
- XRF, AA, ICP fusion machine: both disk and solution units included.
- Ready to fuse with built-in methods for oxide, minerals, metals, alloys, sulfides, fluorides, and more.
- K1 is a single position fluxer providing throughput of 5-7 samples per hour.
- K2 is a five position fluxer providing throughput of 20-24 samples per hour.
- Visit [www.spexsampleprep.com](http://www.spexsampleprep.com) for more information.



### ■ Need more reasons to choose SPEXFusionFlux?

- Every SPEXFusionFlux comes with a Certificate of Analysis stating impurity values.
- Quantity discounts for orders of 10 or more kilograms.
- Free samples (visit [www.SPEXFusionFlux.com](http://www.SPEXFusionFlux.com) for details).
- Made by the leading manufacturer of Certified Reference Materials for spectroscopy instrumentation - we've been in business for over 60 years!



Your Science is Our Passion.®

## SPEX CertiPrep.®

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# Fusion Fluxes & Additives

## Pure and Ultra Pure Fusion Fluxes

| Description                                | Pure Part # | Ultra-Pure Part # | Quantity |
|--|-------------|-------------------|----------|
| Lithium Tetraborate (100%)                 | FFB-1000-02 | FFB-1000-03       | 1 kg     |
| LiT / LiBr (99.50% / 0.50%)                | FFB-1005-02 | FFB-1005-03       | 1 kg     |
| LiT / LiI (99.50% / 0.50%)                 | FFB-1007-02 | FFB-1007-03       | 1 kg     |
| LiT / LiM (67% / 33%)                      | FFB-6700-02 | FFB-6700-03       | 1 kg     |
| LiT / LiM / LiBr (66.67% / 32.83% / 0.50%) | FFB-6705-02 | FFB-6705-03       | 1 kg     |
| LiT / LiM / LiI (66.67% / 32.83% / 0.50%)  | FFB-6707-02 | FFB-6707-03       | 1 kg     |
| LiT / LiM (50% / 50%)                      | FFB-5000-02 | FFB-5000-03       | 1 kg     |
| LiT / LiM / LiBr (49.75% / 49.75% / 0.50%) | FFB-5005-02 | FFB-5005-03       | 1 kg     |
| LiT / LiM / LiI (49.75% / 49.75% / 0.50%)  | FFB-5007-02 | FFB-5007-03       | 1 kg     |
| LiT / LiM (35% / 65%)                      | FFB-3500-02 | FFB-3500-03       | 1 kg     |
| LiT / LiM / LiBr (34.83% / 64.67% / 0.50%) | FFB-3505-02 | FFB-3505-03       | 1 kg     |
| Lithium Metaborate (100%)                  | FFB-0000-02 | FFB-0000-03       | 1 kg     |
| LiM / LiBr (99.50% / 0.50%)                | FFB-0005-02 | FFB-0005-03       | 1 kg     |
| LiM / LiBr (98.50% / 1.50%)                | FFB-0007-02 | FFB-0007-03       | 1 kg     |

## Ultra-Pure Additives

| Description                              | Ultra-Pure Part # | Quantity   |
|--|-------------------|------------|
| Lithium Bromide Crystals                 | FFB-100-03        | 125 g      |
| Lithium Bromide Solution                 | FFB-103-03        | 15 mL      |
| Lithium Bromide Solution (10 pack)       | FFB-105-03        | 10 x 15 mL |
| Lithium Iodide Crystals- Trihydrate Salt | FFB-110-03        | 125 g      |
| Lithium Iodide Solution                  | FFB-113-03        | 15 mL      |
| Lithium Iodide Solution (10 pack)        | FFB-115-03        | 10 x 15 mL |
| Lithium Fluoride Crystals                | FFB-200-03        | 125 g      |
| Lithium Nitrate Crystals                 | FFB-300-03        | 250 g      |
| Lithium Nitrate Crystals                 | FFB-301-03        | 500 g      |



Can't find the standards you are looking for?

SPEX CertiPrep can make custom Fusion Fluxes standards to meet your exact needs.

Call your local sales representative for more information.

## Free Sample!

Contact us today to request a free sample of the SPEXFusionFlux of your choice. No purchase necessary. For a limited time only, also receive a free Flux Scoop!

Request your free sample today at [www.SPEXFusionFlux.com](http://www.SPEXFusionFlux.com)



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