



Fusion

Fusion Fluxes and Additives for XRF, ICP & AA

Fusion is a technique used to prepare inorganic samples, with a view to analyze them by x-ray fluorescence (XRF), inductively coupled plasma (ICP), atomic absorption (AA) or any traditional wet chemistry method. Typical samples include: cements, ores, slag, sediments, soils, rocks, ceramics, pigments, glasses and even metals. A fusion can produce either a small, homogeneous glass disk (or “bead”) for XRF, or an acid solution for other analytical methods. Fusion is an extremely effective method of preparation for oxides, sulfides, fluorides, ferroalloys, and other compounds 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.

For additional product information, please visit www.spxcertiprep.com/inorganic-standards/fusion-fluxes.

Ultra-Pure Additives

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

CERTIFIED REFERENCE MATERIALS

SPEX CertiPrep is the industry leader for over 60 years in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2005 & ISO Guide 34:2009. Certified by UL-DQS, ISO 9001:2008.

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

FREE SAMPLE!

Want a FREE sample of the SPEX Fusion Flux of your choice? Go to SPEXFusionFlux.com and request your FREE sample. No purchase necessary.

CAN'T FIND THE STANDARDS YOU ARE LOOKING FOR?

SPEX CertiPrep can make custom standards to meet your exact needs. Contact us for more information.



APEX CHEMICALS CO., LTD. (Head Office)

2034/87, Italthai Tower 19th Floor, New Petchburi Road, Bangkok, Huaykwang, Bangkok 10310, Thailand

Tel. 02-038-9999 Fax. 02-038-0099



info@apexchemicals.co.th



ApexChemicals



@ApexChemicals



www.apexchemicals.co.th

