xrf scientific

# X-ray Flux

# Better analysis

Because of its efficiency, fusion is often the method of choice for preparing a wide range of samples for analysis by X-ray fluorescence (XRF), atomic absorption (AA) and inductively coupled plasma (ICP). For optimal, accurate and effective results, it is crucial to use a proper borate flux for the required fusion.

# Better fluxes

Designed to optimize your analysis.

XRF Scientific's range of top-quality borate fusion X-ray fluxes feature:

- Vitrified - Anhydrous granules
- Completely homogenous, pre-fused formulations
- High purity: >99.99%
- Controlled granular structure, enabling suspension of the sample during fusion, to ensure a homogenous glass bead
- Very low hygroscopy, LOI - 0.05% typical
- Integrated non-wetting agents


# Standard flux types

| Granular fluxes without additives | |
|---|---|
| 100% LiT (Lithium Tetraborate) | 1018200 |
| 66% LiT : 34% LiM | 1011200 |
| 50% LiT : 50% LiM | 1007300 |
| 34% LiT : 66% LiM (12:22) | 1000100 |
| 100% LiM (Lithium Metaborate) | 1017800 |

| Granular fluxes with integrated lithium bromide | |
|---|---|
| 100% LiT +0.5%LiBr | 1019200 |
| 66% LiT : 34% LiM +0.5%LiBr | 1012500 |
| 50% LiT : 50% LiM +0.5%LiBr | 1008500 |
| 34% LiT : 66% LiM (12:22) +0.5%LiBr | 1001300 |
| 100% LiM +0.5%LiBr | 1017820 |

| Granular fluxes with integrated lithium iodide | |
|---|---|
| 100% LiT +0.5%LiI | 1019300 |
| 66% LiT : 34% LiM +0.5%LiI | 1012600 |
| 50% LiT : 50% LiM +0.5%LiI | 1008600 |
| 34% LiT : 66% LiM (12:22) +0.5%LiI | 1001400 |
| 100% LiM +0.5%LiI | 1017825 |

# Custom Flux

A range of flux compositions are available including Lanthanum, Sodium, and Fluoride based fluxes. XRF Scientific can supply fusion X-ray flux formulations for any customer requirement.

Internal standard fluxes providing very high precision results for the analysis of nickel, iron ore and copper. In some instances, they can eliminate “loss of ignition” determinations providing significant cost and time benefits.

# Additives

State of the art mixing and multi stage splitting equipment integrate Non Wetting Agents (NWA), oxidizers or both into our fusion X-ray fluxes.

- Lithium nitrate oxidizing agent 1 - 5%
- Sodium nitrate oxidizing agent 2 - 20%
- Lithium bromide release agent 0.1 - 1.5%
- Lithium iodide release agent 0.1 - 1.5%

# Lower costs

XRF Scientific fusion X-ray fluxes can lead to an overall reduction in costs in two ways:

- Pricing — All XRF Scientific's X-ray fusion fluxes are available at competitive prices in economical 1kg or 2kg jars.
- Efficiency — Being of very high quality and purity, XRF Scientific's fusion X-ray fluxes lead to consistent fusions and lower operating costs.

# More choice, better service

In addition to high-quality fusion X-ray fluxes, XRF Scientific also supplies pure non-wetting agents such as lithium bromide and Ammonium Iodide tablets.

Every time you buy from XRF Scientific, you can be assured of:

- Fast deliveries, fusion X-ray fluxes are in stock

Option to:

- Combine your X-ray flux order with the supply of platinum labware
- Deliver to International destinations
- Order custom formulations

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For further information, inquiries and orders

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