



Catalog	Item
F-C420-60	Cement Fusion Monitor, Pure, 250 g LiT/LiM/Cement Type 10/LiBr 44.77/44.77/0.95/0.5



The First and Finest in Fusion

Claisse CANADA
350, rue Franquet, suite 45
Quebec (Quebec) Canada G1P 4P3
Tel: 418 656-6453
Fax: 418 656-1169

Claisse USA
918 Sauk Ridge Trail
Madison, WI 53717
Tel: 608 824-0254
Fax: 608 824-0298

Claisse AUSTRALIA
4/37 Harland Avenue
Malaga, WA 6090
Tel: 61 8 9249 9996
Fax: 61 8 9249 9979

Claisse EUROPE
La closeraie de verrières
43 Allée des fraisiers
91370 Verreries Le Buisson, France

www.claisse.com



QUICK AND EASY ERROR-FREE MONITORING FOR YOUR FUSION PROCEDURE!

Modern analytical laboratories require tools to assess uncertainties at every step of the analytical process. Borate fusion combined with X-Ray fluorescence has often been demonstrated to be essential for the determination of major elements in cements, ores and a large number of other matrixes. Drifts and bias contribution from the fusion technique, burner position, fluxer to fluxer, mold effects and other uncertainties were, however, difficult to assess and quantify. The Claisse Fusion Monitor™ is available for the first time for quick, easy and error-free monitoring of the complete XRF-fusion analytical process.

The Fusion Monitor™ consists of homogeneous, fused spherical glassy beads composed of lithium borate flux, a non-wetting agent and a stabilized matrix (cement, iron ores, etc.).

Use of the Fusion Monitor™ is based on comparison. The measurement obtained from a given Fusion Monitor™ preparation is compared to a reference value that was obtained by the preparation of the same Fusion Monitor™ specimen under an initial set of conditions (time, mold, fusion instrument and position, etc.).

ADVANTAGES

The Fusion Monitor™ is ideal for assessing and validating the:

- Analytical precision of fusion methods
- Analytical drift over time
- Biases between molds
- Biases between burner positions on a given fluxer
- Biases between different fusion instruments

The Fusion Monitor™ helps diagnose the root cause of analytical difficulties and validate corrective actions. Combined with good laboratory practices, this is a powerful tool to achieve modern quality control goals.

FEATURES

[1] UNIVERSAL

The Fusion Monitor™ can be used with any fusion instrument. It also can be used regardless of the flux brand and composition you use to prepare your samples. Similarly, the Fusion Monitor™ can be used even if the sample to flux ratio of your routine samples is different from that of the Fusion Monitor™ specifications.

[2] EASY TO USE

Simply add the Fusion Monitor™ to a crucible and perform a fusion using the same method and fusion program as in your routine sample preparation.

[3] MORE ACCURATE AND PRECISE RESULTS

The Fusion Monitor™ lets you monitor mold effects as well as analytical reproducibility to determine when adjustments are required. It also lets you know exactly when you need to polish or reshape molds or when to perform equipment maintenance. Finally, since the matrix is integrated in the Fusion Monitor™, weighing errors are avoided for greater analytical precision.

[4] TIME-SAVING

With the Fusion Monitor™, monitor samples are ready for fusion in a few seconds compared to 3-4 minutes when carefully weighing the sample and the flux (cuts operator time by 90%).

FUSION™ MONITOR

QUICK AND EASY ERROR-FREE MONITORING FOR YOUR FUSION PROCEDURE!

[5] STABILIZED MATRIX

Because the sample is fused, the matrix is protected from chemical and physical effects that could alter its characteristics.

[6] HOMOGENOUS MIX

All components are pre-fused so that all monitor beads have the same composition.

[7] EASY TO MANIPULATE

As with all Claisse fluxes, Claisse Fusion Monitor™ is of the upmost quality. Dust-free and high density, it is non-hygroscopic, and can easily be manipulated with a v-shaped spatula.

[8] NON-WETTING AGENT INTEGRATED

To ensure complete pouring and stable glass disks even with damaged molds and crucibles.



At Claisse, innovation is where vision and technology intersect the needs of our customers. From developing new products to performing fundamental and applied research, our chemists and engineers are focused on open innovation, exploration and discovery so you always benefit from the best products, services and solutions.