

Katanax®

X-600

X-FLUXER®

SIX POSITION ELECTRIC FUSION FLUXER



SAMPLE PREPARATION FOR XRF AND ICP ANALYSIS



SOIL



ALLOYS



SLAG



MINERALS



CEMENT



GLASS



CERAMICS

Agence Nord:

Campus Effiscience
2 Rue Jean Perrin - Bât D
14460 Colombelles
tél : 02.31.34.50.74
fax : 02.31.34.55.17



Agence Sud:

Hôtel d'Entreprises de la Croix Rouge
Lot A4 - 10 Av de la Croix Rouge
84000 Avignon
tél : 04.90.27.17.95 fax : 04.90.27.17.52

Agence Est:

Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
tél / fax : 03.88.04.01.81

www.deltalabo.fr
info@deltalabo.fr

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The Katanax X-600 fluxer is the next generation in electric fusion offering new enhanced features for unparalleled results. Our fluxers combine exceptional fusion accuracy with all the advantages of electric power combined with speed, simplicity and a robust design for the experienced or novice user.

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|--|---|
| <p>① High performance furnace
– Heating elements impervious to flux
– No exposed metal in furnace
– Heats up quickly</p> <p>② Integrated auto-locking safety shield protects the user during the fusion process.</p> <p>③ Low noise level during heating, melting and standby.</p> | <p>④ Easy clean, ceramic mold holders inert to flux. Mold holder system is user-configurable to 30, 32, 35 or 40mm molds.</p> <p>⑤ Extraction chimneys allows for direct ventilation of halogens from each crucible position.</p> <p>⑥ Control panel is adjustable to user's height and features a USB connection for firmware updates.</p> |
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|-------------------------------------|---------------------------|-----------------------|
| • Voltage: 205-250 VAC single phase | • Maximum power: 4000 W | • Height: 56 cm / 22" |
| • Frequency: 50-60 Hz | • Breaker: built in (20A) | • Width: 105 cm / 41" |
| | • Weight: 95 kg / 210 lbs | • Depth: 69 cm / 27" |

FEATURES AND BENEFITS

HIGH THROUGHPUT – Used for preparing glass disks (beads) for XRF, or for preparing peroxide or pyrosulfate fusions. You can also do solid oxidations with the X-600. This unit allows you to run 6 samples at a time achieving a throughput of up to 30 samples per hour.

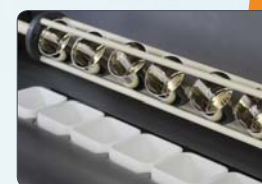
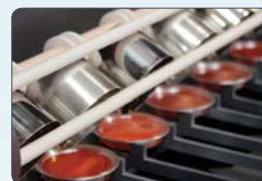
SAFETY – Electric fluxers are safer than gas units because gas leaks are impossible. Only a standard laboratory ventilation hood is required.

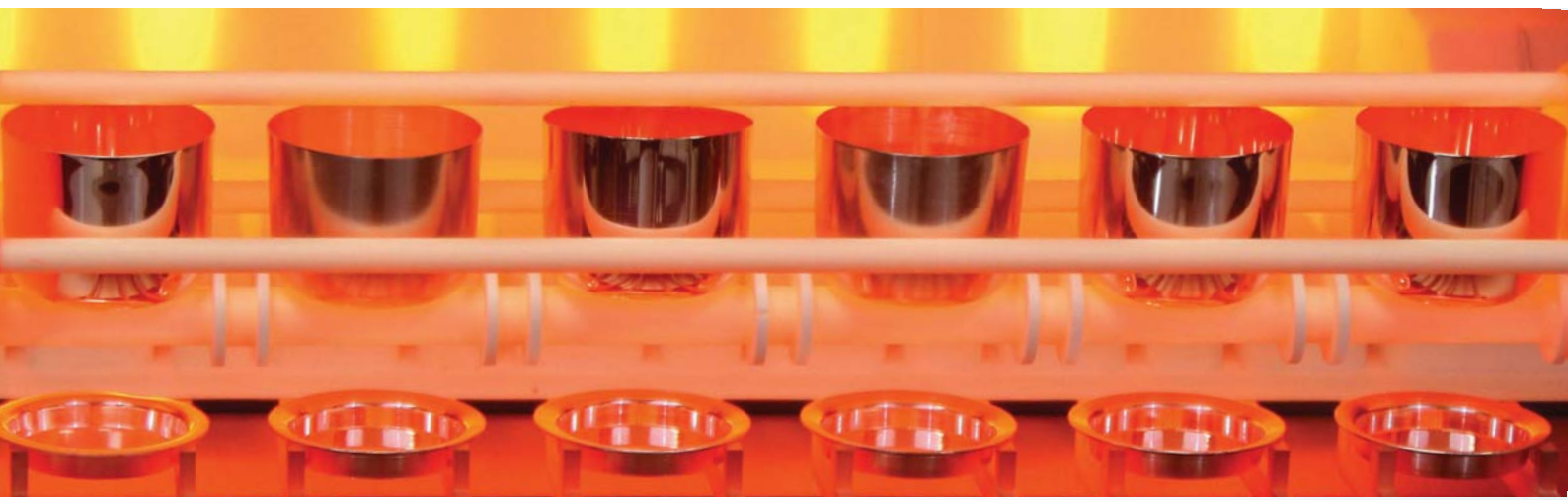
ACCURACY – Precise electric temperature control achieved by dynamic temperature profile (DTP) and individual element compensation (patents pending). Analysts will benefit from temperature homogenization across all six sample positions in the furnace offering better reproducibility and more precise analysis. Since the molds are in the furnace with the crucibles you also have optimum conditions for pouring.

RELIABILITY – Built with the most demanding lab in mind. Its design incorporates robust heating elements, platinumware holders, industrial grade motors and electronics that withstand continuous usage. The X-600 is also designed to be self-calibrating.

SIMPLICITY – Sleek, intuitive, LCD touch-screen interface with icons and menus that makes the operation easy and efficient. It is entirely automated and comes pre-loaded with various fusion programs that can be used as is or customized for your particular protocol. Pre-loaded programs include Oxide, Solution, Metal Peroxide and Ramping. All programs can be saved, renamed, deleted or copied, just like computer files. The software is also available in multiple languages.

SOLUTIONS MODULE – Optional solutions stirrer with variable speed allows the X-600 to produce solutions for ICP/AA analysis in up to 6 beakers simultaneously. Alternating between solutions mode and bead making mode requires only a simple adjustment and alternate method selection.





ADVANTAGES OF THE X-600

HEATING ELEMENTS:

- Impervious to flux and other additives
- Robust, non-brittle (Instrument can be moved without element damage)
- Automatic power calibration maintains uniform position to position temperature.
- Cartridge type, (quick replacement, no need for conditioning procedures)
- Elements can be changed individually (no need to change all at once)

FURNACE:

- Dynamic Temperature Profile (DTP) control to maintain uniform temperature. (patent pending)
- Individual element compensation allows uninterrupted operation.
- Fast heat-up.
- Use of ceramics eliminates metal contamination.

OTHER FEATURES:

- Industrial PLC interface (does not depend on Windows updates)
- No external supplies required (no power supply box, no cooling fluids)
- Low noise during heating, melting and standby.
- Single phase power (No need for 3-phase)

METHOD DEVELOPMENT PROGRAM

Our method development program allows you to send your samples to us and our application chemists will develop a fusion protocol for you. Contact your local Katanax representative for more information.



FUSION FLUX

Superior micro-bead and pre-fused. Available with or without integrated non-wetting agents (LiBr or Lil).



PLATINUMWARE

Platinum crucibles and molds are available in standard or reinforced varieties.

SERVICE & MAINTENANCE

The X-600 is designed to be operated with limited maintenance. Servicing the X-Fluxer is made simple with easy component access, backed up with support from our dedicated service team.

Katanax
100-2022 Lavoisier, Quebec QC,
Canada G1N 4L5
Tel: +1-418-657-6201 • Fax: +1-418-657-6203
Email: info@katanax.com • www.katanax.com

SPEX SamplePrep (USA)
65 Liberty Street, Metuchen, NJ 08840-9978
Tel: 732-623-0465 • 1-855-GET-SPEX (855-438-7739)
E-mail: sampleprep@spex.com
www.spexsampleprep.com

SPEX Europe
2 Dalston Gardens, Stanmore, HA7 1BQ, UK
Tel: +44 (0)20 8204 6656 • Fax: +44 (0)20 8204 6654
E-mail: sales@spexcertiprep.co.uk
www.spexeurope.com