



Katanax[®]
a SPEX SamplePrep Company

The **Leader**
In Electrical Fusion

[K1 PRIME • K2 PRIME • K2 PRIME HX]
SAMPLE PREPARATION FOR XRF (AND/OR ICP)



COMMERCIAL LABORATORY

K1 PRIME (SINGLE SAMPLE)

Voltages: 110-127 / 220-240 VAC

Power (max.): 1300W

Height: 47 cm (19 In.)

Width: 28 cm (10.9 In.)

Depth: 66 cm (26 In.)

Mass: 30 kg (66 Lbs.)

CE



K1
K1 SINGLE Sample



K2 PRIME (6 SAMPLES)

Voltage: 220-240 VAC

Power (max.): 3000W– 4000W (HX)

Height: 48 cm (19 In.)

Width: 91 cm (36 In.)

Depth: 68 cm (27 In.)

Mass: 43 kg (95 Lbs.)

CE

K2
PRIME
K2 SIX Samples

WHAT'S INCLUDED?

K1 PRIME

- ▶ Fluxer (K1 Prime main unit)
- ▶ Mold heating/cooling unit
- ▶ Specific size mold holder
- ▶ Solution agitation unit (option)
- ▶ Power cord
- ▶ Instruction manual
- ▶ Tool kit (hex keys, spare fuses, etc.)
- ▶ USB flash drive

K2 PRIME

- ▶ Fluxer (K2 Prime main unit)
- ▶ USB flash drive
- ▶ Specific size mold holder
- ▶ Solution agitation unit (option)
- ▶ Power cord
- ▶ Instruction manual
- ▶ Tool kit (hex keys, spare ceramic parts, etc.)

CONTACT US TODAY

To learn more about how Katanax electric fusion fluxers can benefit you, call us at **(+1) 418 657 6201** or email us at **info@katanax.com**.

You may also visit our website at: **www.katanax.com**

Katanax[®]
a SPEX SamplePrep Company

100-2022 Lavoisier
Quebec QC
Canada G1N 4L5

Tel: **+1-418-657-6201**

Email: **info@katanax.com** • Fax: **+1-418-657-6203**
www.katanax.com



WHY CHOOSE FUSION INSTEAD OF PRESSED PELLETS?

Borate fusion is the chemical process by which metal oxides or semi-metal oxides are dissolved into a borate flux to produce an amorphous and perfectly homogeneous glass disk.

- Borate fusion eliminates mineralogical and particle size effects as a result from dissolution of any sample, a potentially large source of analytical error in XRF spectrometry.
- Borate fusion also reduces matrix effects to an absolute minimum because of the dilution effect and solvent's limited interference.
- The analyst can prepare standards by simply mixing pure oxides.
- Reproducibility and accuracy of line intensity is enhanced ten-fold because of homogeneity resulting from dissolution.



OPTIONAL "HX" HIGH-THROUGH-PUT PACKAGE

- A K2 Prime equipped with the "HX" option allows for fusion cycles 15-20% faster than the standard unit. This package consists of a modified electrical circuitry, incorporating larger heating elements and a second mold-cooling blower.
- The HX option must be ordered at the same time as the K2 Prime because it must be installed during manufacture. It cannot be added later. The option bears part number KP5201A. A power outlet that can handle up to a 20 A current is required.

WHY KATANAX FLUXERS ARE SIMPLY BETTER.

• Ease of use

All instruments are ready to work as soon as you plug them in. The integrated basic fusion programs allow you to start working right away. The icon-based user interface is easy to use and allows for fast customization of recipes.



• Safest operation

A fully covering safety shield and interlock allows your operators to work with the safest possible fluxer design on the market today.

• Greener Power Consumption

No post-combustion gases will be produced. There's no need for special power outlets because of the low power use (specifications on back) which also results in low power costs (gas vs electric).



• NO Combustible gases

All our fluxers are electric. This means no risk of explosion, no hassle with bringing gas to remote locations, no altitude sensitivity, perfect reproducibility, and the best accuracy every time because of highly accurate temperature control.

• Production Capacity

These instruments can be left unattended while performing fusions as they are fully automated. The K1 can produce up to 5-7 beads/hour, the K2 up to 20-25 beads/hour. Boost K2 Prime production up to 15-20% more with the HX option.

WHAT CAN KATANAX FLUXERS DO FOR MY COMMERCIAL LABORATORY ?

- Our fluxers are ideal for fusion of all ore types, provided proper protocol is used.
- Katanax fluxers provide the best temperature control on the market -- the combination of accuracy, reproducibility and speed are unmatched by others.



- The lowest possible loss of volatiles (sulfur, fluorine), through accurate temperature control, can easily be achieved by controlling fusion parameters on our user-friendly interface.
- Our fluxers provide excellent versatility as they can be used for regular bead production, peroxide fusions and solutions for ICP.
- Katanax fluxers will deliver your commercial laboratory the most accurate and reproducible results, leading to equally impeccable data.

