



C3 PROZESS- UND  
ANALYSENTECHNIK GmbH

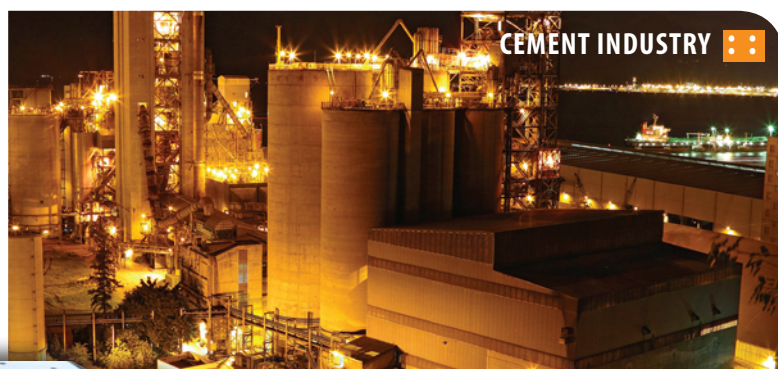
PRODUKTINFORMATION

# SPEX SamplePrep Katanax Fluxer K2 Prime<sup>®</sup>

Schmelzaufschlussgerät



**K2**  
PRIME



CEMENT INDUSTRY ::



MINING INDUSTRY ::



GLASS & CERAMIC INDUSTRY ::



STEEL & METAL INDUSTRY ::

# FUSION WITHOUT FLAMES®



The heated sample is poured from the crucible into the mold

## WHY CHOOSE ELECTRIC FUSION FOR GLASS BEADS?

Founded in 2002, Katanax has established itself as the leader in electric fusion equipment. Our fluxers combine exceptional fusion accuracy with all the advantages of electric power:

- ▶ Safety
- ▶ Simplicity
- ▶ Versatility
- ▶ Easy installation
- ▶ Temperature control
- ▶ Quick maintenance

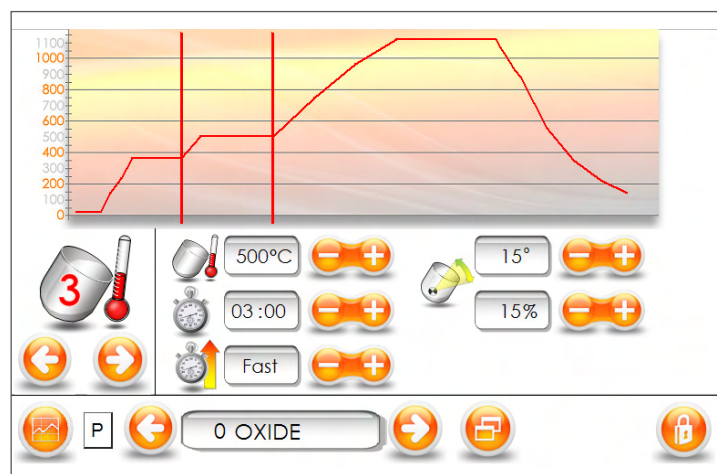
Katanax fluxers will allow you to save time and money while obtaining the best possible analytical data from fused samples.

## KATANAX K2 PRIME

The **K2 Prime** is a powerful fusion fluxer used for preparing glass disks (beads) for XRF, or for preparing peroxide or pyrosulfate fusions. It is an electric fluxer that fuses samples without flames. An optional solution stirrer provides for ICP and AA solution making ability. You can also do solid oxidations with the K2 Prime. This unit allows you to achieve a throughput of up to 24-30 samples per hour.

## SAFETY

Electrical fluxers are safer than gas units. There are no pipes, no risk of leakage and no potential accidents. Plus, the K2 Prime's integrated safety shield protects the user during the fusion process.



PLC controller allows programming for all parameters.

## EASY INSTALLATION

When you install a Katanax K2 Prime in your lab you only need a 220 VAC/240 VAC outlet. Just plug it in, choose your program and press start to fuse your sample. There is also USB connectivity for increased convenience and accessibility.

## SIMPLICITY

With minimal training, anyone can use our fluxers. The K2 Prime has a sleek, color, LCD touch-screen interface with icons and menus that makes the operation easy and efficient. It is entirely automated for the ultimate in fusion operations.

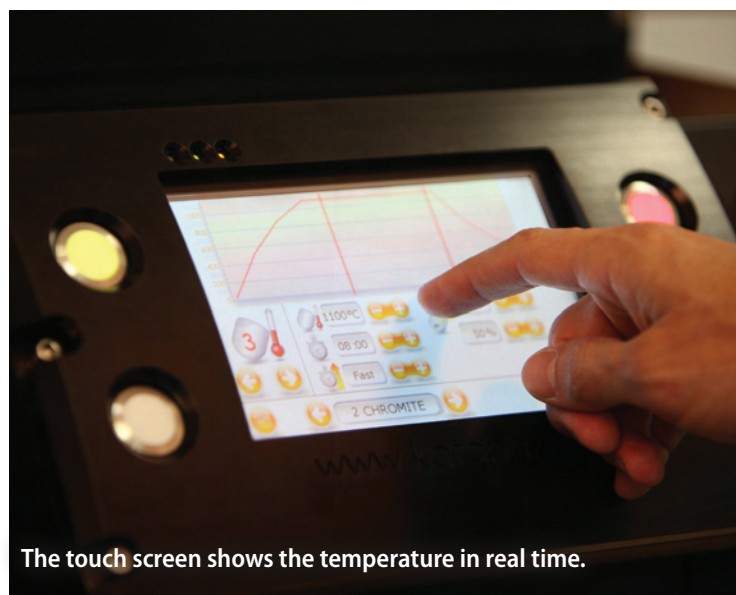
Scan QR Code for video or  
visit [www.youtube.com/sampleprep](http://www.youtube.com/sampleprep)



It 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
- Anneal
- Metal
- Peroxide
- Ramping

All programs can be saved, renamed, deleted or copied, just like computer files. Only the pre-loaded programs are protected to avoid accidental overwriting. These programs are also available in multiple languages.



The touch screen shows the temperature in real time.

## TEMPERATURE CONTROL

Katanax K2 Prime's electric fusion system has precise electric temperature control. This allows for better reproducibility and a more precise analysis. Analysts will also benefit from optimal temperature control and homogenization across the entire six sample positions in the K2 Prime. Since the molds are in the furnace with the crucibles you have optimum conditions for pouring.

## VERSATILITY

With our optional solutions preparation unit, you can use the K2 Prime in conjunction with your ICP and AA spectrometers in addition to your XRF. Borate and peroxide fusions, followed by acid dissolution, is the fastest way to get your refractory samples to your spectrometers.

## QUICK MAINTENANCE

Furnace heating elements are easily accessed through a removeable side panel to make replacement simple. Quick release crucible and mold holders allow for easy cleaning and part replacement.



## KEY APPLICATIONS

- Mining & geological samples
- Cement, lime & limestone
- Catalysts, ceramic & glass
- Ferroalloys & non-ferrous alloys
- Pharmaceuticals & cosmetics
- Ores & slag

## HIGH THROUGHPUT HX PACKAGE

A high throughput ("HX") package option is available that provides 15-20% more sample throughput than the regular K2 Prime. It has a high-power heating element circuit and dual mold cooling blowers ideal for processing more samples.

## TECHNICAL SPECIFICATIONS

<b>VOLTAGE:</b> 220-240 VAC	<b>HEIGHT:</b> 48 cm (19")
<b>POWER:</b> 3000W (4000W - HX)	<b>WIDTH:</b> 91 cm (36")
<b>WEIGHT:</b> 43 KG (95 LBS)	<b>DEPTH:</b> 68 cm (27")

## COMPLETE K2 PRIME KIT

- K2 Prime fluxer unit
- Instruction Manual
- Maintenance kit
- Extra heating element
- Extra crucible & mold holder
- USB drive for recipe back-up and updating firmware



# ANOTHER GREAT KATANAX PRODUCT!



Scan the QR code to see the video or visit [www.youtube.com/sampleprep](http://www.youtube.com/sampleprep).

## THE ULTIMATE SINGLE POSITION FLUXER

The Katanax K1 Prime Fluxer combines the ultimate in fusion accuracy with all the advantages of electric power. Use the K1 Prime for preparing glass disks (beads) for XRF, or for preparing peroxide or pyrosulfate fusions. An optional solution stirrer provides ICP and AA solution making ability. You can also do solid oxidations with the K1 Prime. This unit has a throughput of up to 5-7 samples per hour.

### FEATURES INCLUDE:

- ▶ Safety – no gases used
- ▶ Controlled heating
- ▶ Energy efficiency
- ▶ Convenience – only a 120-volt or 230-volt outlet required
- ▶ Ease of installation – plug it in, turn it on!



**K1**  
PRIME

## PLATINUM LABWARE & FUSION FLUX



We supply platinumware and fusion flux to process your samples. Our platinum crucibles and molds are available standard or reinforced varieties. Various mold sizes are available including 30mm, 32mm, 35mm and 40mm. Our Fusion flux is superior micro-bead and pre-fused. Its available with or without integrated non-wetting agents (LiBr or LiI). Options available are pure (99.93%) or ultra pure (99.998%).

## CONTACT US

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## 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.



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