

Technical Specification

Maximum Temperature (Continuous)	1250°C
Throughput	Up to 30 beads per hour
Programmable Recipes	24
Cradle/mould holders	Hi-purity ceramic, no contamination
Insulation	Ceramic fibre board
Elements	Silicon Carbide
Power requirement	380-415 Volt, 50/60Hz, 3 phase
Thermocouples	Type R (Pt v Pt/13%Rh)
Power Consumption	6.0kW
Construction	Single external aluminium case
Crucible	30g
Mould	60-100g
Lid	cool touch glass viewing window
Over temp protection	second dedicated thermocouple
Size	HxWxD 580x1110x800mm (800mm with lid open)
Weight	100kg
Weight external power supply	30kg

We reserve the right to change the design or specification of our products without notice. Some of the information contained in this brochure is general in nature and customers should check that it is applicable to their individual circumstances.

xrFuse 6

electric fusion machine

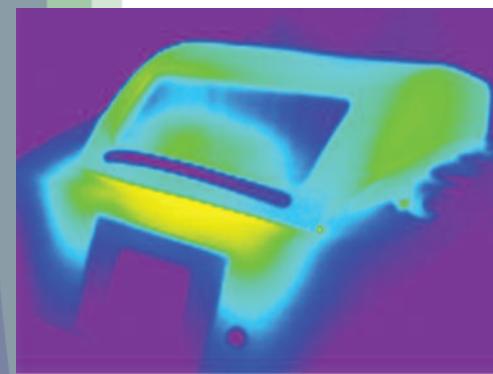
The low contamination solution for the broadest range of samples



Fast reliable instrument for the consistent production of zero contamination beads

xrFuse 6

Established Technology



The xrFuse 6 represents 25 years of experience fusion technology and applications to deliver best in class contamination free performance

The machine represents the best elements of XRFS established electrical fusion range with significant advances of safety and design.

Designed with the latest thermal imaging technology, consumer tested in the biggest XRF laboratories in the world, the xrFuse6 is designed with the customer in mind.

Key Features



Zero Contamination

The ceramic cradle and holders ensure that the environment for creating beads has zero contamination in comparison with that typically found with Inconel based solutions.



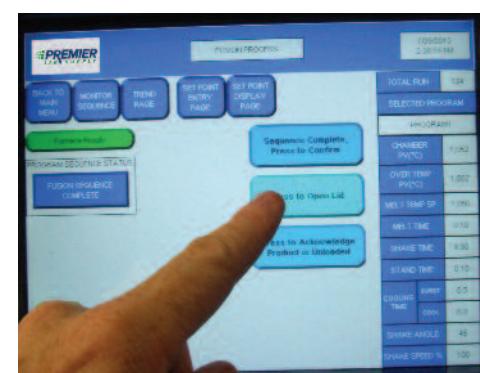
Safe Operation

The external surfaces of the instrument have been modelled and developed with the latest IR technology to ensure all contact surfaces are safe to touch.



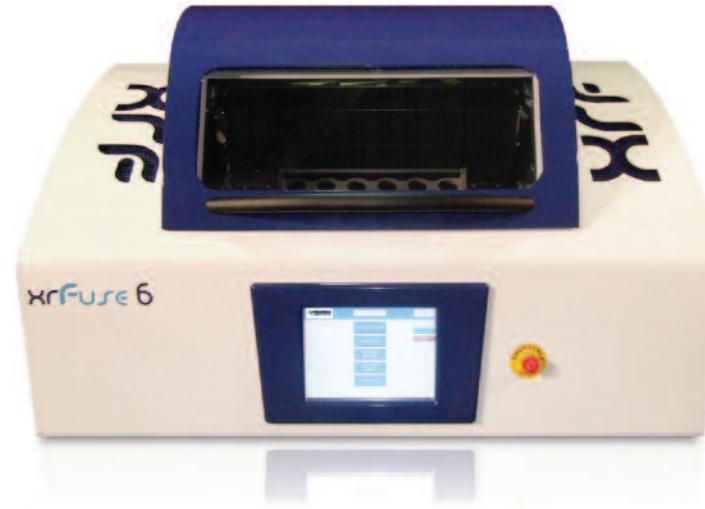
Process Visibility

The glass viewing panel allows the customer to view the key elements of the fusion process in action. This is particularly important for method development.



Simple User Interface

The User Interface has been designed based on customer requirements. It is simple to use and provides the flexibility to cope with the simplest operation on a repeatable basis or the most complex one off experiments.



A Diverse Range of Applications

The xrFuse 6 user interface is designed in such a way that it can meet the need for consistency of a production laboratory, while at the same time giving the analytical chemist the flexibility to modify parameters as required. Cold to cold operation means it is an ideal solution where the health and safety requirements of a production environment need to be strictly adhered to. If on the other hand, method development is the critical requirement, the instrument can be configured in a custom manner to meet specific experimental needs.

The absence of Inconel contamination makes the instrument an ideal candidate for samples requiring nickel analysis. For applications such as Mineral Sands where high accuracy and purity is required across a broad range of elements, the absence of contamination is a significant benefit.

Ongoing Support

We see the purchase of any of our fusion machines as the beginning of an ongoing relationship where we provide our customers with the opportunity to access a range of support and technical services to meet their fusion needs. Whether you are new to fusion or an experienced user we have a range of services to increase the productivity and throughput of your application.

- Advice on appropriate selection of flux and standards
- Organization of Platinum remake processes
- Technical advice on difficult fusion issues
- On-site support and preventative maintenance programs

To schedule a demonstration in your lab or a visit to our facility please visit our website for additional information.

The Complete Solution



Flux

We offer some of the most competitive prices in the industry for standard borate fluxes including custom solutions to meet your specific needs. For more specialist applications we are always happy to provide support and can often devise a custom solution which is just right for you. Please contact us to discuss your application or simply request a quotation.



Labware

Our company's commitment to clients extends beyond the initial supply of labware, as it can offer a complete service with metal exchange, refining and technical support to help make the purchasing of platinum products as easy and cost effective as possible. Whatever your platinum requirements are PREMIER offers quality, value, service commitment.



Accessories

From polishing lathes through to release agent, we provide a complete range of fusion products and accessories.