

# XRF Scientific Ltd

## Fusion XRF Reference – Ceramic Type Materials

Points on fusing ceramic types materials for XRF analysis:  
See Australian Standard AS 4392.2 1997

The fusion procedure in this standard stipulates that –

1. A fusion temperature of between 1050C to 1100C is maintained, with swirling, for 10 minutes. (Note: 8.1.4)
2. When casting into a separate mould, the melt be poured into the mould (casting dish) pre heated to a red heat i.e. 950C to 1050C (Note: 8.1.5b)

And to prevent mould deformation through repeated heating and cooling, the base should be greater than 2mm thick. (Note: 6.3.3)

For further information, purchase the Heavy Mineral Sands Fusion-XRF procedure from the website:

[www.standards.com.au](http://www.standards.com.au)

We recommend the use of the heavy-duty moulds to maintain accurate and precise analysis.

E.g.

30/32mm diameter 60g

39/41mm diameter 100g