

The Schonigër Procedure

A Safe and Reproducible Combustion System



APPLICATIONS

The analysis of :-

- Chlorine
- Bromine
- Iodine
- Fluorine
- Sulfur
- Phosphorus
- Boron
- Some trace metals in organic matrices

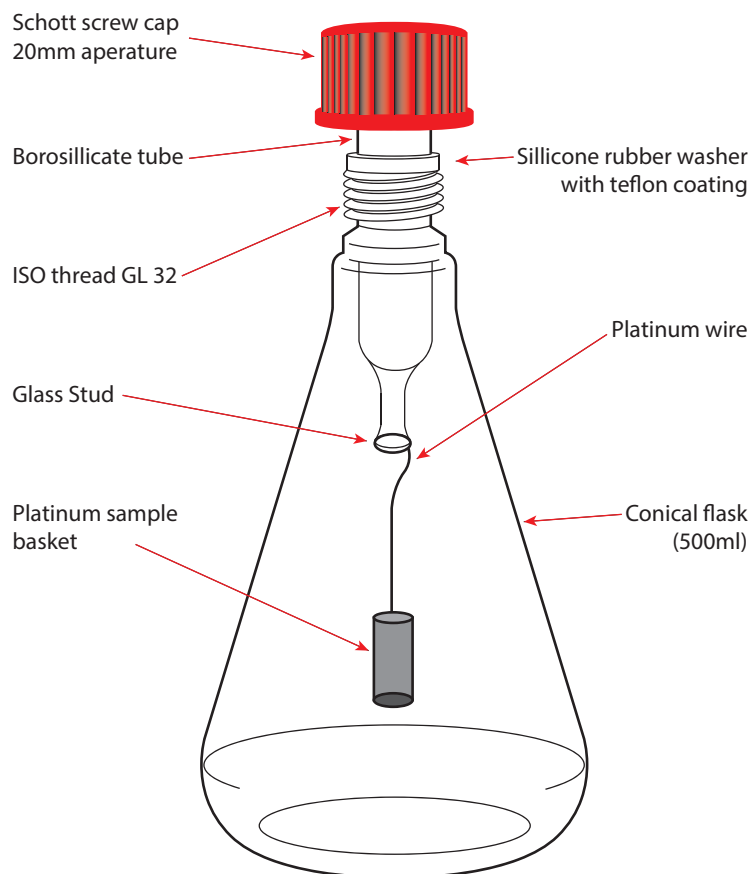
ADVANTAGES

- Safety, any potential explosion is contained within the unit itself
- The combustion procedure is carried out in a sealed flask minimising any potential combustion product leaks. Interlocks prevent operation if door is open
- Low cost of initial unit and next to zero running costs
- Simple operation

The Oxygen Flask Combustion Unit has been designed as a safe method of igniting samples when using the oxygen flask combustion procedure, for the determination of sulfur, halogens, phosphorus, fluorine, boron and some trace metals in organic materials.

The unit consists of two tungsten-halogen lamps on the sides of an aluminium chamber contained in a standard enclosure. Reflectors focus the infra-red heat from the lamps onto a small area approximately 10cm above the centre of the chamber. The lamps can only be operated when the chamber door is fully locked. When the START switch is pushed the lamps operate for 10 seconds (set internally). The 'firing' may be observed through a black acrylic window in the door. In the event of a flask explosion, pressure is vented safely through holes in the chamber and any glass fragments are contained within the chamber.

Suggested glassware arrangement



EAI

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