

## INDUSTRIAL SCALE FURNACES

### CUPELLATION FURNACE

MSE Cupellation Furnace is suitable for mixing and melting samples with the following chemicals at 1100°C such as Borax ( $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ ), Silica Sand ( $\text{SiO}_2$ ), Lead (II) Oxide ( $\text{PbO}$ ), Silver Nitrate ( $\text{AgNO}_3$ ), Potassium Nitrate ( $\text{KNO}_3$ ), Carbon (C), Sodium Carbonate ( $\text{Na}_2\text{CO}_3$ ), Calcium Fluoride ( $\text{CaF}_2$ ). Depending on the nature of the sample, the internal bricks, heating elements and thermocouples are resistant to these conditions, against the formation of acidic, basic and neutral vapors.

MSE designs and manufactures cupellation furnaces up to 1300 °C. Please contact us for detailed information.

Cupellation is a refining process in metallurgy.

Basically, The cupellation furnace removes all non-precious metals from samples of the precious alloy to be assayed.

- T<sub>max</sub>. 1300°C
- Acidic, basic and neutral vapors resistant to internal brick, heating element and thermocouple
- Openable and closable manually controlled chimney structure
- Up and down moveable stainless steel furnace lid cover
- Special fan system with lid zone and internal suction
- Able to place sample on the lid and use with the lid open

Temperature: 1300°C  
Volume: 87 litres

