# SNF - Swelling Number Index Furnaces

## General Information

The SNF furnace is designed to test the swelling index number of coal in accordance with the following standard test methods
BS 1016-107.1:1991 Methods for analysis and testing of coal and coke. Caking and swelling properties of coal. Determination of crucible swelling number

SCF Crucible Furnace

## Standard Features

- For testing the free swelling index number of coal
- Alaso know as the crucible swelling number
- For testing to BS ISO 501:2012 and ASTM D720-91(2010)
- 30mA (RCD) residual current circuite breaker, protects the opertor ( because the test requires operation with the door open during heating)
- Precise PID temperature control using 2132 controller
- Supplied with wire crucible holder

## Options

- Accessory crucibles and lids available
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)

## Technical Specifications

| **SNF** | |
|---|---|
| Max temp (°C) | 900 |
| Maximum continuous operating temp (°C) | 850 |
| External crucible height (mm) | 26 |
| External crucible diameter (mm) | 41 |
| Internal crucible diameter at the base (mm) | 11 |
| Dimensions:<br>External H x W x D (mm) | 330 x 410 x 300 |
| Thermocouple type | K |
| Max power (W) | 800 |
| **Power supply** | 220V - 240V, 50-60Hz, single phase and neutral, with protective earth (ground) connection |
| Weight (kg) | 26 |