

# Data Sheet

## Model: Gray King Coke Test Furnace, GKF



### INTRODUCTION

The Gray King coke test furnace evaluates the caking properties of coal or coal blends by carbonising them under standard conditions.

This test data can be easily compared with industrial practices, allowing for a reliable prediction of how the coal will behave during large-scale carbonisation.

The GKF furnace is designed and complies with standards BS ISO 502:2015, BS 1016-107.2, AS 1038.12.2, IS 1353.

Elite Thermal systems offer the choice of two Gray King coke test furnaces, GFK-1 & GFK-4.

### SPECIFICATIONS

- | Continuous operating Temperature: 600°C
- | Both the models have two zones
- | GFK-1 can hold a single retort tube whilst the GFK-4 can hold up to 4 retort tubes
- | Aluminum bronze stabilisation block which gives improved uniformity of temperature
- | Two thermocouples are located inside the stabilisation block, protected by ceramic sheaths
- | Energy efficient, high quality, low thermal mass insulation
- | High end Microprocessor PID controller & slave controller to maintain the required temperature
- | The furnace is equipped with a wheel and rail system that allows it to be retracted from the retort tubes for cooling, as specified by the Standard
- | Horizontal models are supplied as standard with controls in the base



GKF Furnace



Retort Tubes

### STANDARD SUPPLY

- | Gray King Coke Test Furnace, GFK
- | Instructions manual - 1 No.

### OPTIONAL FEATURES

- | Multi-segment, multi-program storage controller
- | Over temperature protection controller

**Note:** Retort tubes should be ordered separately.

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