

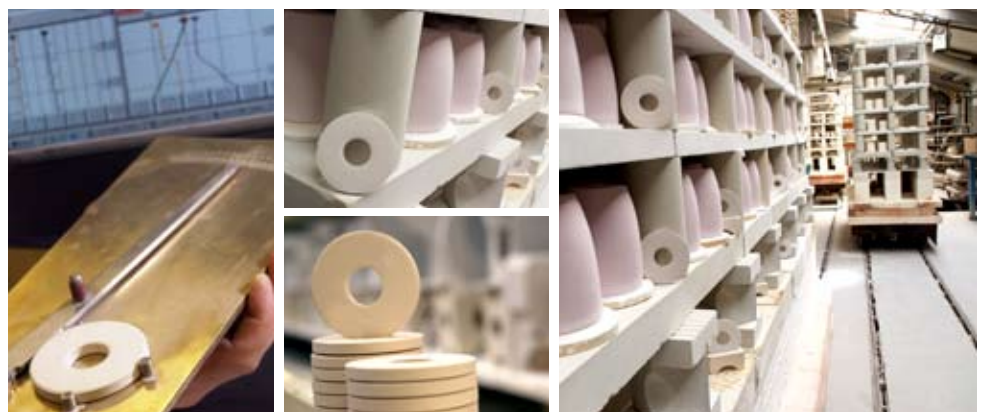
Pyrometric & Heat Work Technology

Pyrometric Technology

- 1 To develop the **“optimum properties”** when firing a ceramic product, the control and uniform application of **‘Heat Work’** is essential.
- 2 The latest kilns, with microprocessor temperature controls, **“provide only spot readings at fixed points”**, they cannot monitor the effects of **‘Heat Work’** on the firing process.
- 3 **‘Bullers Rings’** are used to check the **“balance and consistency of firing conditions”**, either as an independent, easy to use monitoring device, or as an **“indispensable quantitative control parameter”** on sophisticated modern kilns.
- 4 Potential quality problems are **“identified early in the process”** and **recorded** so that the results can be monitored and actioned accordingly.
- 5 The UK manufacturing processes for **‘Bullers Rings’** are controlled by a quality system certified to comply with BS EN ISO 9001 encompassing **extensive pre-testing to guarantee product quality**. **‘Bullers Rings’** are simple to use, accurate, consistent and cost effective.

the world famous **Bullers Rings...** measuring **“heat work”** within kiln environments

don't be left behind in the race for **“total quality”!**



Bullers Rings and Discs do not measure temperature - why?

- From the most basic to the most sophisticated of kiln, **“temperature is well understood as a measurement and control parameter”**.
- Most kilns have thermocouples installed for spot temperature measurements. **“You do not need a pyrometric device to tell you the temperature”**.
- What you need to know is **“what effect”** the temperature has had on the product, together with the time it has been exposed to those temperatures - this is the effect of **“heat work”** - this is the critical parameter we measure.
- In order for you to **correlate** the average peak temperature against the measured Bullers data, we have formulated a **‘ring temperature chart’**, this is for guidance only - please see separate data sheet.
- When you measure **‘heat work’** you know how your product has **“reacted to the kiln conditions”**, **do not underestimate the usefulness of this quality control process**. It will save you time, energy and money.

can you afford
not to measure
“heat work”?

