



What are Bullers Rings?

- **Mantec Technical Ceramics**, with its HQ in Stoke-on-Trent in the heart of the UK ceramics region, is the home of the globally renowned and industry standard **Bullers Temperature Control Devices**. Bullers Rings are essential for reliable monitoring of **'heat work'** or **'heat energy'** in a kiln or furnace. Heat work is the effect of temperature over time or how well **'cooked'** or **'processed'** ceramic products are.
- Bullers Rings operate within a full range of firing temperatures from **750°C to 1420°C (1382°F to 2588°F)**

Temperature Range		Product Code
Very Low Temperature	750°C - 1000°C (1382°F - 1832°F)	TR89/05
Low Temperature	960°C - 1100°C (1760°F - 2012°F)	TR55/84
Standard Temperature	960°C - 1250°C (1760°F - 2282°F)	TR27/84
Extended Temperature	960°C - 1320°C (1760°F - 2408°F)	TR75/84
High Temperature	1280°C - 1420°C (2336°F - 2588°F)	TR73/84

The most common applications for Bullers Rings are in the firing of:

- Heavy Clay (Bricks & Roof Tiles)
- Sanitaryware
- Tableware
- Wall/Floor Tiles
- Refractories

The Benefits of Bullers Rings

- Bullers Rings are an essential part of any **Quality Assurance System** to ensure the accurate firing of ceramic products.
- Bullers Rings experience the same **'thermal journey'** as your ceramic ware so are an early indicator of **'under fired'** product that enables preventative action to be taken to ensure the correct product quality.
- Bullers Rings are sensitive to changes in **'Heat Work or Heat Energy'** and their contraction will depend on the combination of temperature, rate of firing and length of soaking time. **Thermocouples alone cannot and will not provide you with this vital information!**
- Bullers Rings offer a **rapid, low-cost, consistent** and **reliable** method of accurately monitoring kiln performance and aid in establishing optimum firing regimes that:

Maximise Yields • Increase Productivity • Decrease Waste • Improve Profitability

