

# Purchasing Ceramic tubes - Anderman Ceramics gears up to help you to achieve the most cost effective solution

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For many businesses, purchasing ceramic tubes ([http://www.earthwaterfire.com/furnace\\_tubes.htm](http://www.earthwaterfire.com/furnace_tubes.htm)) or any other ceramic solutions for their applications can be a difficult task. This can be made simplified if the exact material and size of the tube are known. However, if all of the information is not available, Anderman Ceramics have staff who can help identify the correct solution for your business.

As tubes can be made by a variety of methods in a selection of different ceramics materials ([http://www.earthwaterfire.com/technical\\_ceramics\\_technical.htm](http://www.earthwaterfire.com/technical_ceramics_technical.htm)), both the way the tube is made and the material, can affect the performance characteristics. Price is also effected by the method of manufacture, material chosen, finish requirements (tolerances, etc.) and quantities. Therefore, the more information about the environment and requirements you can give, the greater chance we have of producing the correct product for you.

As with all applications involving ceramics, the selection process for the material and production method is critical if you are to achieve the most cost effective solution.

If you know the exact material and size then this is easy – if not then, here is some information you will need to make sure you will get a tube that meets your requirements : -

## 1. Dimensions

- a. Outside diameter
- b. Inside Diameter
- c. Number of bores (Single or multi hole tube)
- d. Length
- e. Tolerance (Normal is around +/-5% but if better required let the supplier know)
- f. Straightness

## 2. Quantity required

- a. Standard sizes can be purchased in small quantities
- b. Special sizes may require a minimum order
- c. One off requirement or repeatable business
- d. Yearly usage estimate

Also important to remember is that the quantity will depend on an estimate of how much use the tubes will get in a year and the life expectancy of each tube.

Standard tube sizes can be purchased in smaller quantities but more irregular sizes may require a minimum order volume.

## 3. Configuration

- a. Tube – open at both ends
- b. Tube – Closed at one end (Sheath)
- c. Shape of closed end (Flat ended or round ended)
- d. Any additions (Tubes can be made with flanges at one or both ends)

4. Porosity – Dense or porous

- a. Dependent on material – porous tubes tend to have better thermal shock characteristics

5. Material

- a. If known but if not then working environment details are very important

6. Working environment

- a. Max working temperature
- b. Variations in temperature expected and time to change from Max to min temp
- c. How tube is supported
- d. Vertical or Horizontal in use
- e. Elements in contact with tube
- f. Use (Thermocouple protection, element support etc)
- g. Life expectancy

Anderman Ceramics offers a variety of materials for industrial applications and is delighted to help their customers to achieve the most cost effective solutions.

Anderman Ceramics Ltd

Established in 1947 and its experience in sourcing, stocking and selling technical ceramics worldwide has positioned Anderman Ceramics at the highest levels of product and service quality. We offer an extensive range of standard technical ceramics products, as well as, custom- design components.

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