

## 14ct TSC Yellow Alloy Properties and Process Data

- Principally a casting alloy.
- Good colour match with the general purpose alloy, 14ct AY.

### Technical Information

#### Alloy Composition

- 58.6% Gold,
- 6.02% Silver, + Zinc, Copper & Silicon

#### Properties

- Colour Yellow
- Density 13.3g/cm<sup>3</sup>
- Melting Range 840 - 885°C
- Annealed Hardness 100 +/- 10 HV

#### Process Data

##### Casting:

This alloy has good flowability and form filling properties. Since this alloy is principally a casting alloy, it may not perform satisfactorily if used in wrought manufacturing processes. The casting temperature range is 970 - 1090°C. Small fine castings will require a temperature at the higher end of this range. This alloy can be quenched from a black heat. Typical flask temperatures should range from 600 - 650°C.

##### Annealing:

This alloy may be annealed at 650°C in a furnace. Alternatively it may be heated to cherry red and allowed to cool.

##### Solders:

Any of the hallmarking quality 14ct solders supplied by Cookson may be used with this alloy.

##### Enamelling information:

Due to the presence of zinc this alloy may not perform satisfactorily when enamelled.