22ct DS Yellow Alloy Properties and Process Data

· A general purpose alloy suitable for all applications

Technical Information

Alloy Composition:

• 91.75% gold

• + 3.18% silver + copper.

Properties

- · Colour Yellow (Dark Shade)
- Density 17.8 g/cm³
- Melting Range 965 980°C
- Annealed Hardness 75 +/- 5 HV
- 10% reduction of area 90 +/- 10 HV
- 20% reduction of area 115 +/- 10 HV
- 40% reduction of area 145 +/- 10 HV

Property Annealed

UTS 275 N/mm² Elongation 21% Proof Stress 120 N/mm²

Process Data Rolling/Drawing/Stamping: May be cold worked up to 80% area reduction between anneals.

Annealing:

Furnace anneal at 650°C or heat with a torch to a dull red colour. Hold at temperature for a minimum amount of time to avoid excessive grain growth. The alloy can be water quenched.

Spinning: Suitable for most applications.

Casting:

Suitable for casting. Casting temperatures vary between 1030 – 1100°C.

Machining:

Fully hard, cold-worked material should be used for best machining properties.



Cooksongold 59-83 Vittoria Street Birmingham B1 3NZ UK
 Tel:
 0345 100 1122

 Fax:
 +44 (0) 1212126456

 Email:
 info@cooksongold.com

 Website:
 www.cooksongold.com