

14ct NW White Alloy Properties and Process Data

- Alloy will require rhodium plating, for a true white colour.
- Versatile alloy used to manufacture most forms of jewellery
- Alloy contains Nickel and conforms to part 2 of the Nickel Directive but does not conform to part 1 which *“prohibits the supply of post assemblies intended to be inserted into a pierced part of the body during epithelialisation of the wound caused by such piercing.”*

Technical Information

Alloy Composition:

- Gold 58.7%
- + Nickel, Zinc and Copper

Properties

- Colour White
- Density 12.8g/cm³
- Melting Range 870- 950°C
- Annealed Hardness 140+/-15 HV

Process Data

Rolling/Drawing/Stamping:

May be worked up to 70% reduction between anneals.

Annealing:

The alloy may be annealed at 700°C in a furnace, the time depending upon the size of work piece. Alternatively it may be heated to cherry red and allowed to cool. This alloy may be quenched from below black heat (500°C) if necessary.

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.