

Technical sheet - Alloy 800

Color - Reddish Yellow Purpose – All Purpose (Wire, sheet & plate) Karat - 9K-14K

1904°F - 1922°F

1742°F - 1796°F

Composition & Melting			
Cu	Ag	Zn	Ni
73.00%	19.50%	7.50%	0.00%
	Temperatures		
Karat	°C	°F	

• The alloy and fine gold should be melted together in a clean crucible. Place alloy in the bottom of the crucible and fine gold on top.

1040°C - 1050°C

950°C - 980°C

- Initial melting temperature should be obtained then reduced to the suggested ingot temperatures.
- The alloy should be mixed well with a stirring rod to ensure a good mix.
- Alloy should be poured into a preheated, vertical or lightly lubricated iron mold.

9K- 14K

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- Use a steady, even pouring motion slowing down at the end of the pour to prevent shrinkage at the top of the ingot.
- Use a round rod mold for wire and a 2-piece L shaped mold for plate and sheet.

Quenching

- The metal ingot should be removed from the mold and quenched immediately into a pickle solution or water.
- For heavy ingots a one- minute cooling period is recommended to avoid quench cracking.

Fabrication

- The metal ingot should be cleaned of all adhering oxides or fluxes before rolling.
- The ingot should be rolled or drawn to a 50% reduction in size before annealing.
- After initial annealing continue the reduction at 50% before annealing again.
- Clean the ingot after each anneal.

Composition

Melting

Initial

Ingot

• Keep rolls, dies and metal clean to prevent defects in the finished stock.

Annealing

- Annealing temperature is 675°C/1250°F for 20 minutes & Quench immediately. Do not over anneal.
- A boric acid fire coat should be applied before annealing in open atmospheres.
- Over annealing can cause excessive grain growth and orange peel effect on the surface.

Note: There are proprietary metals in the formulation which are not included in the composition section.

Technical Assistance: Available... Call 1-800-999-3463 / 1-800-999-FINE

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