
UNITED “PINK / RED” ALLOY # 552

Thank you for using UNITED’S alloys.

UNITED’S # 552 ALLOY may be used for **10 K – 18 K casting**, which produces a **Pink / Red finished color**.

You should obtain excellent results by following a few simple instructions.

MELTING

We do recommend pre-alloying all alloy and fine gold with aggressive stirring & fluxing to assure a uniform mixture.

- Step : 1** Pre- Alloying (Fine gold + alloy) Temperature **1050° - 1060° C**
1922° - 1940° F
- Step : 2** Casting Temperature for 10 K & 14 K Alloyed Grain **990° - 1010° C**
1814° - 1850° F
- Casting Temperature for 18 K Alloyed Grain **1010° C / 1850° F**

NOTE: Melt temperature may vary with type of unit. This alloy is designed for casting only.

FLASK TEMPERATURE

Normal recommended temperature in the range of **580° C to 700° C / 1076° F – 1292° F** depending on size of flask, karat & type of jewelry.

FLUXING

Boric Acid is the recommended flux. Use as little flux as possible. Do not use carbon fluxes or any fluxes designed for refining; i.e., soda ash, saltpeter, etc. Avoid flux in bottom pour automatic casting units.

QUENCH TIME

For 10 K & 14 K quench **15 minutes**.

For 18K quench the button (only) within 2 - 3 minutes after casting. Then proceed to quench the whole flask.

For hand-made (rolling), quench ingot immediately.

INVESTMENT REMOVAL

Most standard investment removers will successfully remove the investment powder. Fluoric-based investment removers are the best for removing the silicon oxide invisible coating. Use of aggressive acids causes stress corrosion and surface damage and is therefore not recommended.

UNITED’S Brite-Cast™ Investment Remover works effectively in removing fire scale as well as preventing stress corrosion or surface damage of the cast piece.

REMELTING

We recommend 50% rejuvenation for re-melting.

TECHNICAL ASSISTANCE

Always available... Call 1-800-999-3463 / 1-800-999-FINE

E-mail / doc@unitedpmr.com Web-Site / www.unitedpmr.com

2781 Townline Road, Alden, NY 14004, USA.

Phone : (800) 999-3463; International Phone : +1-(716)-683-8334

Fax : (800) 533-6657; International Fax : +1-(716)-683-5433

E mail: sales@unitedpmr.com; Website: www.unitedpmr.com