

335 REDDISH YELLOW BRASS FOR SHEET, PLATE, AND WIRE FABRICATION

United # 335 is a 90 % Copper based Reddish Yellow Brass is formulated for fabrication of plate and wire fabrication giving a Reddish Yellow color. The # 335 Brass Alloy can also be used for Investment-Casting if desired.

MELTING

The # 335 Reddish Yellow Brass Alloy should be melted “as is” in a clean crucible. Initial melting temperature should be **1050° C / 1922° F**. Drop temperature by about **5° C** before pouring. Boric acid flux should be used to skim out the dross and slag to keep the metal clean during the melting process. The metal should be mixed well with a stirring rod before pouring to assure a good mix.

POURING TEMP FOR INGOTS

1050° C - 1060° C
1922° F - 1940° F

POURING

Metal should be poured into a preheated, vertical graphite or lightly lubricated iron mold. A steady even pouring motion should be used slowing down at the end of the pour to prevent shrinkage in the top of the ingot. Use a round rod mold for wire and a 2 piece L shaped mold (preferably of a width of 3.0 inches and thickness 0.080” inches) for plate and sheet.

QUENCHING

The metal ingot should be removed from the mold and quenched immediately in pickle solution or water. For heavy ingots a one-minute cool down before quenching prevents quench cracking.

FABRICATION

The metal ingot should be cleaned of all adhering oxide or fluxes before rolling. The ingot should be rolled or drawn to a 50% reduction in size before annealing. After annealing continue the reduction at 50% before annealing again. Clean the ingot after each anneal. Keep rolls, dies and metal clean to prevent defects in the finished stock.

ANNEALING

Annealing temperature **485° C / 900° F** for **20 minutes**. **Quench immediately in water or pickle solution**. A boric acid fire coat should be applied before annealing in open atmosphere ovens to protect the metal from heavy oxidation. Avoid over-annealing wire or plate stock as this can cause excessive grain growth creating orange peel effect on the surface of finished goods.

REMELTING

Use 50% scrap to fresh mix when re-melting to prevent oxide build up in the metal.

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