

UNITED CASTING BRONZE ALLOY # 342

COMPOSITION	15% ZINC,	5% TIN,	80% COPPER
	UNITED'S # 342 Casting Bronze is a Standard Yellow bronze designed to cast jewelry samples, models, belt buckles, art objects, etc. It finishes to a Standard 14 K color and easily solders with silver or lo gold formulas. # 342 has a much better resistance to tarnish than brass alloys, as well as a harder surface. # 342 also contains a silico de-oxidizer for clean casting. Using 25 % by weight of # BR-REPL replenisher with this alloy greatly improves the castability of scrap and tarnish resistance of this alloy. Specific Gravity of this alloy is 8.62.		
	You should ob instructions.	sults by following a few simple	
MELTING	Casting Tempo	erature	1048° C - 1055° C 1920° F - 1930° F
	NOTES: Melt temperature may vary with type of unit. # 342 Bronze should not be used for gold casting! # 342 Bronze should not be cyanide gold plated, use acid gold plating unless nickel sub-plate is used. For # 342 Bronze, we recommend an ultrasonic cleaning solution called BCR available from OKITE, phone # 1-800-526-4473 ext. 2411. Some kind of Anti -Tarnish coating / Lacquering on the jewelry is highly recommended since the tarnish resistance of this alloy is poor. Please visit : http://www.permalac.com/products.asp?gclid=CPqyxbT4obUCFUO K4AodUgIAEQ for more information on lacquering products.		
FLASK TEMPERATURE			ture in the range of 580° C to 700° C / 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	15 – 20 minutes depending on size of flask & type of jewelry.		
INVESTMENT REMOVAL	investment por removing the s causes stress c recommended. UNITED'S B	wder. Fluoric-ba silicon oxide inv orrosion and sur rite-Cast TM Inv scale as well as	overs will successfully remove the sed investment removers are the best for isible coating. Use of aggressive acids face damage and is therefore not estment Remover works effectively in preventing stress corrosion or surface
TECHNICAL ASSISTANCE	•		-999-3463 / 1-800-999-FINE Web-Site / <u>www.unitedpmr.com</u>
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