

# ABI Precious Metals

## White Bronze Conversions

White Bronze – so how do we use these new clutch hitters? With the continued rise in the price of silver, many manufacturers and small designers are searching for alternatives to Sterling Silver. One issue is that white bronzes and low silver alternatives play a different ball game.

In order to make them work we have to adapt to their game. Most of these new metals contain small to large amounts of nickel and, as those who have worked with alloys know, when working with nickel you have to turn up the heat! For example, let's look at two of ABI's new formulas:

Good old White Bronze: we have added some "sweeteners" for better performance and now added # 59 to our lineup. It's liquidus temp is 2030°F (1110°C), flask temp. about 12000°F (649°C), which will depend on the gram weight of the design (heavy around 1050°F, light around 1300°F). Reuse 60% new, 40% old. Larger sprues work well if tapered for less shrinkage porosity.

A new player in our lineup, coming on strong, is our #2510 (25% silver, 10% nickel). It is performing extremely well and gives a polished finish that looks like it's been rhodium plated. It's liquidus temp. is 1752°F (959°C), casting temp. 1800°F – 1920°F (983°C – 1049°C) and, depending on weight and design, flask temp. 1100°F – 1200°F (595°C – 650°C). Re-use is 60% new, 40% old. Remember the old rule of thumb – watch it melt then add at least 100°F more (torch melt and machines vary so watch the melt!) Standard pickle is recommended. Finishing can vary with different formulas, white and chrome rough work well.

So if you're looking for some new heavy hitters for your lineup, here they are! You're sure to come out a winner with these new metals from ABI.

As always, if you have questions, please give us a call – 30.769.0600 or email [abimsr@aol.com](mailto:abimsr@aol.com)

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