

ABI Precious Metals

Instructions for use of Anti-tarnish Dip Solution ATD 3

Before starting

- Bath container may be glass, stainless steel or polypropylene
- Container must be thoroughly cleaned and free of detergent residue
- Dip concentrate should be above 77°F (25°C) and below 104°F (40°C) before starting – place container in bath of warm water to bring to temperature

Making the solution

- Fill the container 75% full with distilled water
- Heat the distilled water to 120°F -130°F (49°C-55°C)
- While stirring, slowly add the dip
- Finish by adding the proper amount of distilled water
- Mix 9 parts distilled water to 1 part dip (10% concentration)
- Bring dip solution to 120°F-130°F (49°C-55°C)
- Mechanical agitation is preferred – if not available the solution needs to be stirred every few minutes for maximum results (Teflon or glass utensils)

Dipping the parts

- The parts to be dipped must be totally cleaned in an ultrasonic, steam cleaned and given a bath in boiling distilled water for 1-2 minutes
- Place the parts in the dip solution for 2-4 minutes
- Remove parts from dip solution for two stage rinse in distilled water, first at 85°F (40°C) for 1 minute followed by room temperature rinse for 1-2 minutes
- Parts can dried at room temperature or by using a hair dryer or hot box – **DO NOT WIPE THE PARTS DRY!**

Warnings/helpful hints

- **WARNING** – wear chemical resistant gloves when handling concentrate, dip solution or freshly dipped parts
- Do not exceed 135°F (57°C) dip temperature
- Replenishment possible – see titration procedure
- Separation or partial solidification can occur if stored below 77° F (25° C). By warming the container in 104° F (40° C) tap water the concentrate will again become a clear, yellow/orange
- **WARNING** – Solution must be monitored and kept at the proper temperature with the concentration between 8 – 12 % to achieve maximum tarnish resistance
- **View a video demonstration at www.abipm.blogspot.com**

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