

TECHNICAL DATA SHEET

AG 311

ANTI TARNISH AGENT FOR SILVER PLATED COMPONENTS:

AG 311 is an aqueous solvent free chemical passivation (through immersion) to provide very thin anti-tarnish film for silver, silver alloys and silver plated components. Its use imparts effective protection against sulphur atmosphere. It does not affect the solderability and conductivity of the deposit.

EQUIPMENT:

Tanks fabricated from stainless steel, PVC or glass.

OPERATING CONDITIONS:

Concentration	20-40 gm/liter
Temperature	40°C-45°C
Time	1-5 minutes

MAKE UP:

- Fill the tank thoroughly cleaned with 2/3rd of water.
- Heat the solution to the operating temperature.
- Slowly add AG 311 with constant stirring.
- Make up the operating level with DM water.
- Bath is ready for use.

MODE OF OPERATION:

• FOR ELECTRONIC COMPONENTS:

The silver plated components after through rinsing in demineralised water are treated in AG 311 solution for 5 minutes. For getting uniform coating it is advisable to move the components in the solution and then the parts are immersed in warm drag out rinse (35°C) for about 30 seconds. Too long immersion time in rinse can result in reduction

of the coating thickness and hence parts are given a quick rinse in cold water and then dried with warm air at 60°C -80°C.

In case the plated parts contain pasty residue, this can be removed by adding 5 ml/l AG 311 post dip solution to the drag out rinse. If a barrel is used for anti tarnish treatment of smaller parts, we would recommend to employ a separate barrel for exclusive use with AG 311 treatment.

- **FOR DECORATIVE SILVER PLATING:**

The silver plated wares and jewellery articles are treated in the same way in AG 311 solution and after treatment the parts are dipped in a warm drag out rinse for about 50-60 seconds. The parts are subsequently dipped in a cold water rinse and dry with warm air.

MAINTENANCE:

The solution after continuous usage, the concentrate is to be added at regular intervals to maintain the active substance within the optimum range in order to maintain the protective value on silver plated components.

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