

## Antitarnish ALS 10

Antitarnish ALS 10 is an immersion process on aqueous basis to avoid tarnish effects on silver. The protective capacity is at least as good as that of conventional systems using vaporisable organic solvents or an electrolytic chromating process, which are rejected for reasons of environmental protection or the pollution load of the waste water. The immersion solution which is easy to use doesn't contain any components harmful to the environment, particularly no chlorinated hydrocarbons or chromium compounds. If treated correctly, silver-plated articles are provided with a safe storage protection which is mostly fast to handling and rubbing but which is not dishwasher proof.

Antitarnish ALS 10 can be used for both, decorative silver plating as well as silver plating of parts used for electrical engineering.

The process also protects copper against oxidative discolouration and prevents tarnishing of silver migration on thinly gold-plated silver.

If dry silver-plated parts are protected, a single-stage treatment of Antitarnish ALS 10 is sufficient. If wet silver-plated articles are to be protected, Antitarnish ALS 10 Pre-dip has to be used previously for water displacement.

The information in this data sheet is based on laboratory as well as practical experience. Figures quoted for operating limits and replenishment quantities are for guidance. Actual values necessary will depend on the components being plated (material and geometry), their application and plating plant conditions.

### Important:

Please read these instructions carefully and follow recommendations given. We reserve the right to make technical changes as necessary. In the interests of safety, please pay attention to the R- and S- phrases on the labels of the containers. The minimum shelf life of the additives is printed on the label of the container. The current IMDS number of the layer deposited from the process can be found on the internet at [www.schloetter.com/downloads](http://www.schloetter.com/downloads).

For the storage of chemical products only the TRGS 514 and TRGS 515 regulations must be followed. The Hazardous Goods Regulation (ADR/GGVS) is only valid **for transportation** and must not be applied to storage.

