

CONDURSAL N9W

Protective Paint for Plasmanitriding and Pulse Plasmanitriding

Characteristics

CONDURSAL N9W is a newly developed protective paint for normal plasmanitriding and also for pulse plasmanitriding. *Unlike normal CONDURSAL N9 it is free of copper and the protective coating does not exhibit electric conductivity.*

After the plasmanitriding process is finished, the residues of the paint can be easily removed by wiping or brushing.

Application

The steel surfaces to be protected have to be clean, dry, free of oil, dust or other contaminants, which is normally achieved by washing or solvent degreasing.

Before use, the content of the CONDURSAL N9W tins must be stirred up thoroughly to provide homogeneous consistency. After that, the paint can be applied to the workpieces with a soft flat brush or by dipping / immersion. Normally one coating is sufficient to provide safe protection. For extremely long nitriding cycles, where some of the coating will be sputtered off which might affect protection, a second coating is recommended, in order to get a thicker layer. In that case it is important to make sure that the first coating has dried thoroughly before the second one is applied.

Drying time

Drying time which strongly depends on coating thickness, ambient and workpiece temperature, atmospheric humidity etc. can range from approx. 3 to 8 hours. For effective protection it is important to have the coating thoroughly dried before heat treatment is started. This can be checked by "fingernail test".

Coated areas on the workpieces should not exceed 30% of their total surface.

If the paint has thickened in the tin after repeated opening and use, some of the „Special Thinner for CONDURSAL N9W“ can be added to restore the original consistency. Overthinning has to be avoided because it would affect the protective performance of the paint.

Removal of residues

After completion of the nitriding process, the residues of CONDURSAL N9W can be removed easily by wiping or with a steel brush.

Cleaning of brushes and other working equipment

After use the CONDURSAL N9W tins should be closed airtight. For cleaning of brushes etc. the „Special Thinner“ can be used or xylene, but by no means water.