

HIGHLIGHTS

- **VOC-free**
- **Highest activity of 3000 series fluxes**
- **Very good wetting and reliable filling of through-holes**
- **Lowest residues**
- **High resistance against corrosion and electro migration – NoClean**

■ **General Description**

ELFLUX 3007 NC is a water-based, organic no-clean flux for use in wave soldering under normal and inert gas atmosphere. It is low in solid content and halide-free and can be used for both tin-lead and lead-free soldering processes. ELFLUX 3007 NC is a further development of the ELFLUX 3000 series with the objective to further reduce the flux residues after soldering. The few remaining residues on the boards are not tacky and cause no problem during electrical in-circuit testing. Cleaning of the boards to remove the residues from the solder joints is in general not required

■ **Areas of Use**

ELFLUX 3007 NC is effective in case of OSP-treated copper as well as for chemical Sn or electrolytic nickel or silver surfaces. The flux is best applied by spraying (dipping or brushing is possible as well). ELFLUX 3007 NC yields excellent soldering results for tin-lead solders, like Sn63Pb37 and lead-free solders of the tin/copper, tin/silver, or tin/silver/copper groups or similar materials. ELFLUX 3007 NC is suitable for all applications of the electrical and electronic industry, especially also in the automotive and telecommunication sectors.

■ **Classification**

ELFLUX 3007 NC has been classified as ORL0 per DIN EN 61190-1-1 and IPC ANSI/J-STD-004 and as 2.1.3 per DIN EN 29454.

■ **Technical Specification**

Appearance	Clear, transparent liquid	Acid number [mg KOH/g Flux]	29 ± 2
Smell	Mild, nearly odourless	Halide content [%]	none
Density [g/cm ³] (20 °C)	1.008 ± 0.003	pH - value	3.5 ± 1
Solids content [%]	3.5	Flash point [°C]	none
VOC-content [%]	none	Ignition temperature [°C]	none

■ **Application**

In automatic soldering processes it is recommended to apply ELFLUX 3007 NC only by spraying. Dipping and brush application are possible for simple soldering operations. The optimum preheat temperature range is 110 to 140 °C measured on the top side of the board. The use of convection heating systems is recommended. It is advisable to increase the flow of nitrogen in closed system in order to remove water vapour. Please refer to the equipment makers for detailed settings. ELFLUX 3007 NC is also suitable for even higher preheat temperatures which might be required by lead-free soldering processes.

■ Cleaning

Removal of the flux residues: if desired, residues of ELFLUX 3007 NC can be removed by rinsing with hot water.

■ Packing Sizes

ELFLUX 3007 NC is available in containers of 10L / 20L

■ General Safety Precautions

ELFLUX 3007 NC should be used according to industrial standards of practice. For safety advice please refer to the material safety data sheet.

■ Storage

ELFLUX 3007 NC is not flammable and are therefore not subject to any restrictions regarding the stored quantity, not even near the soldering machine. The product does not have to be stored in dangerous goods stores. ELFLUX 3007 NC is water-based and should not be stored under 3 °C.

■ Shelf-Life

Under adequate conditions ELFLUX 3007 NC can be stored in original unopened containers for a minimum of 12 months.

The information contained herein is based on technical data that we believe to be reliable and is intended for use by persons having technical skill, at their own risk. Users of our products should make their own tests to determine the suitability of each product for their particular process. ELSOLD will assume no liability for results obtained or damages incurred through the application of the data presented.