

BONDERITE S-FN 6500

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PRODUCT DESCRIPTION

BONDERITE S-FN 6500 provides the following product characteristics:

Technology	Functional Coating
Product Type	Corrosion protection, oil-free
Application	Passivating Agent

BONDERITE S-FN 6500 is a multipurpose, silicon oil free, protective lubricant compound with dewatering capacity to be used on a wide range of metals and metal alloys, such as: Copper, Steel, Zinc, Magnesium, Tin, Cadmium, Aluminium, Lead.

Based on modified fatty acids, lube additives and dewatering agents dispersed in highly hydrophobic solvent, BONDERITE S-FN 6500 is able to produce on the metal surfaces an effective anticorrosive layer (1 to 3 microns). Thanks to this characteristics BONDERITE S-FN 6500 is widely used for the dewatering/protective treatment of electric contacts without damaging relays and switches.

Due to its high lubricant characteristic BONDERITE S-FN 6500 is also widely used in the welding wires area, providing a very high sliding capacity for metallic wires sheathing operations.

BONDERITE S-FN 6500 can be easily removed even at low temperature by mild alkaline cleaners, and it is chemically stable even after heating from 70 up to 250°C without changing its appearance.

BONDERITE S-FN 6500 meets the requirements of MIL-C-81309C.

Application Areas:

BONDERITE S-FN 6500 can be used at room temperature by immersion, manually (sponge/brush), or spray (air-less, air mix, air).

To get thicker layers and more corrosion resistance, it is possible to increase the product application temperature to max 50 to 60°C.

TECHNICAL DATA

Appearance	fluid
Color	dark brown
Specific Gravity	0.83 g/mL at 20°C
Dry matter	~31%

DIRECTIONS FOR USE

Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Control:

Usually no controls have to be made in the case the BONDERITE S-FN 6500 is applied on dry metallic surfaces.

On the contrary, we suggest to control water content, in case wet material has been processed (immersion or recirculating spray tanks).

Water Content:

- Transfer a 100 mL bath sample into a 500 mL round bottomed distilling flask.
- Add 200 mL Toluene (or Xylene) and set up the Marcusson device (scale 0.5 to 10 mL for water collection).
- Heat up to boiling and keep on boiling for approx. 30 minutes from the beginning of the continuous dropping.
- Stop the boiling and record the mL of collected water (contained in 100 mL of bath).

If the water content is higher than 12 to 15% it is necessary to remove the water from the tank.

To do this, we suggest to let the bath stand for 60 to 120 min, so that the water can be collected in the bottom of the tank and then drain it through the dedicated exhaust valve.

Afterwards fill up the tank again with BONDERITE S-FN 6500.

Storage:

Recommended Storage Temperature, °C	0 to 35
Shelf-life, months (in unopened original packaging)	24

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazards identification
Transport information
Regulatory information

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Reference 0.1