



STANNOL
PIONEERS OF SOLDERING

PRESS RELEASE

2022/05/31

EF160 Bio PV

The new bio solar flux from Stannol

The EF160 Bio PV flux is the latest member of Stannol's sustainable greenconnect product family. Especially developed for the use in the photovoltaic module industry, the No-Clean flux meets all requirements of the industry. The special feature: By using renewable raw materials, a better eco-balance is achieved than with conventional fluxes – while maintaining the same high product quality.

Bio-ethanol instead of IPA

"We are pleased to be able to further expand our environmentally friendly greenconnect series with EF160 Bio PV. With the new flux, the common solvent isopropanol is replaced by bio-ethanol. This results in a significantly better CO₂ balance," emphasises Thomas Kolossa, Sales Manager at Stannol. Isopropanol (IPA) has its origins in the petrochemical industry and is obtained from the by-product propene. Bio-ethanol, on the other hand, consists of renewable raw materials and can be produced completely without fossil fuels via a fermentation process.

Low solids content, very good solderability

EF160 Bio PV is halogen- and resin-free as well as low in solids, which makes it particularly suitable for solar module production. The innovative flux also ensures very good solderability in module assembly processes for soldering by IR and convection. It can be applied and soldered by hand to the ribbon as well as in tabber/stringer soldering systems with spray fluxers. The precisely formulated activator system leaves no visible residue after soldering – the cells are dry and cosmetically clean after the soldering process.

EF160 Bio PV offers a wide thermal process window, making it suitable for lead-free and lead-containing soldering processes. It has high peel forces that keep the solder joints stable in the long term. The flux can be applied by spraying or dipping. It is suitable for both automated spray and stringer applications and can also be used for hand soldering.

The flux residues of EF160 Bio PV after soldering are non-conductive and non-corrosive. The flux is classified as No-Clean, the residues can usually remain on the surface after soldering.



STANNOL

PIONEERS OF SOLDERING

Product features

The product offers the following advantages:

- 70 percent CO₂ savings
- 95 percent bio-based content (according to DIN EN 16785-2)
- No-Clean
- low residue – minimal equipment contamination, low-maintenance processing
- low solids content
- excellent peel force resistivity
- very good wettability
- suitable for immersion and spray application methods

Classification:

- classified as ORL0 according to J-STD-004
- RoHS compliant

About Stannol GmbH & Co KG

Stannol looks back on a long tradition in solder production: The company has been combining experience and progress in its products for more than 140 years. To this day, Stannol is considered a pioneer of modern soldering technology and is firmly established as a brand on the market. The company specialises in the production of solder wires, solder pastes, fluxes as well as solder bars. The product range also includes measuring and testing equipment, protective coatings and comprehensive accessories. In addition to its high quality standard, Stannol focuses on sustainable and ecological manufacturing: Under the name “greenconnect”, the company offers a complete product range that focuses on sustainability and fairness.

Contact:

Stannol GmbH & Co. KG
Simone Bauer
Haberstraße 24
D-42551 Velbert
Tel: +49 (0) 151 677 32 042
simone.bauer@stannol.de
www.stannol.de