



SOLDER WIRES OF THE KS-SERIES

No-Clean solder wires with clear residues

PRODUCT DESCRIPTION

Stannol KS-series electronic solder wires have been designed for special requirements of lead-free soldering. They meet all demands of industrial manufacturing as well as for rework and repair.

Stannol solder wire KS115 contains a rosin-free, halide activated synthetic resin. The Stannol KS100 is based on the same synthetic resin, however it is halide free activated. All mentioned flux types are an excellent combination of high activity at thermal stress with amber bright and electrically safe residues.

The flux formulations KS115 is classified J-STD-004. Due to its high activity (1.5 %), the flux is classified as REM1. The KS100 is classified as REL0 according to J-STD-004.

CHARACTERISTICS

The synthetic resins offer more advantages as natural rosin:

- **active flux** (fast wetting of solder pads and pins; shorter cycle times)
- **bright amber residues** (low thermal decomposition at soldering temperatures)
- **solid residues** (high softening point; chemical and physical safety)
- **low spitting** (high viscosity of the flux reduces spitting; low contamination)
- **low fuming** (low decomposition and evaporation at high temperatures; low contamination of work place and around the solder joint)

APPLICATION

Stannol solder wire KS115 is designed for use with robotic and manual soldering for electric and electronic devices. Flux residues may remain uncleaned. This must be examined in individual cases, where environmental stress is applied to the circuit.

PHYSICAL PROPERTIES AND DATA

GENERAL PROPERTIES	---	KS100	KS115
Flux type:	J-STD-004	REL0	REM1
Flux content:	EN 12224	3.0 weight % ± 0.3	
Halide content:	J-STD-004	0.0%	1.5%
Corrosivity:	J-STD-004	none	
Surface Insulation Resistance:	J-STD-004	>10 ⁸ Ω	
Standard alloys acc. to ISO 9453:2014 with micro additives <0.05%	Lead-free (Flowtin Series):		
	Flowtin TC (Sn99,3Cu0,7)		
	Flowtin TSC (Sn95Ag3,8Cu0,7)		
	Flowtin TSC305 (Sn96Ag3Cu0,5)		
Available diameters:	from 0.3 mm		
Available reel sizes:	250 g, 500 g, 1 kg		

Other alloys, flux contents or reel sizes are available on request.

CLEANING

If cleaning is required for optical or technical reasons, the residues can be removed using conventional cleaning processes. The Stannol cleaner Flux-Ex Post is recommended for cleaning.

HEALTH AND SAFETY

Read the material safety data sheet carefully before use and observe the safety precautions described.

DISCLAIMER

The mentioned values are typical and represent no form of specification. The Data Sheet serves for information purposes. Any verbal or written advise is not binding for the company, whether such information originates from the company offices or from a sales representative. This is also in respect of any protection rights of third parties, and does not release the customer from the responsibility of verifying the products of the company for suitability of use for the intended process or purpose. Should any liability on the part of the company arise, the company will only indemnify for loss or damage to the same extent as for defects in quality.