



solutions catalogue

SUPPLIER OF SOLUTIONS

THE BROADLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

2013
2014





STANNOL/ Germany, is a renowned name in the world of soldering and soldering technology. With a rich history dating from 1920, Stannol offers a wide range of high quality materials for effective and reliable soldering.

STANNOL Německo je známé jméno ve světě pájení a pájecích technologií. S bohatou historií sahající až do roku 1920 Stannol nabízí širokou škálu vysoce kvalitních materiálů pro efektivní a spolehlivé pájení.

STANNOL Deutschland ist ein bekannter Name in der Welt des Lötens und der Löttechnik. Mit seiner reichen Geschichte, die bis ins Jahr 1920 zurück reicht, bietet Stannol ein breites Spektrum an qualitativ hochwertigen Materialien für effizientes und zuverlässiges Löten.

A németországi **STANNOL** neve a forrasztás és forrasztástechnika területén vált híressé. A cég gazdag történelme 1920-ig nyúlik vissza. Kiváló minőségű anyagok széles skáláját kínálja a hatékony és megbízható forrasztáshoz.

STANNOL Niemcy, to nazwa znana w świecie lutowania i technologii lutowniczych. Z bogatą historią sięgającą aż do roku 1920, Stannol oferuje szeroką gamę wysokiej jakości materiałów do efektywnego i niezawodnego lutowania.

STANNOL / Germania, este o denumire celebră în lumea sudării și a tehnologiei sudării. Cu o bogată istorie datând din 1920, Stannol oferă o gamă largă de materiale de înaltă calitate pentru o sudare eficientă și fiabilă.

STANNOL Ne-mecko, je známé meno vo svete spájkovania a spájkovacej technológie. S bohatou históriou siahajúcou až do roku 1920, Stannol ponúka širokú škálu vysoko kvalitných materiálov pre efektívne a spoľahlivé spájkovanie.

Stannol produces a wide range of solder pastes and wires, fluxes, bars and ingots, accessories and also offers a test service and technical support for soldering materials.

Why STANNOL?

- company specialized on soldering materials from 1920
- wide portfolio of solders and fluxes

Lead Free Solder Wires

2630 Series

This solder wire is used for applications requiring a higher activity, for components with poor solderability, especially for soldering operations on transformers, soldering on cooper cables with large diameters, where a stronger flux is needed to cope with a high thermal capacity of the components to be soldered. It is also used for soldering of nickel surfaces, critical components and robotic soldering with short cycle times.

Flux Type: TYP 1.1.2
Alloy: Sn95,Ag4Cu1
Flux Content: 2%
Melting Temperature: +217°C



HS10 Series

is very efficient by its high activity, which results in quick spread of solder and electrical safe residues. Halide activated rosin flux with following properties:

- save soldering even at low soldering temperatures
- solid and dry residues, pin testable
- fast soldering, high spread speed

Can be used for hand and robot soldering

- high reliability

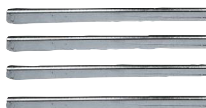
Flux Type: TYP 1.1.2
Alloy: Sn95,5Ag3,8Cu0,7/ Sn99Cu1
Flux Content: 2,5%
Melting Temperature: +217°C



Solder Bar LZ 1000

For solder bath. Suitable for dip, selective and wave soldering. 4 x cca 250g.

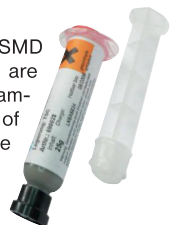
Flux Type: F-SW32
Alloy: Sn99Cu1
Flux Content: 0%
Melting Temperature: 227°C



Solder Paste SP15TSC

Lead free soldering pastes designed for soldering SMD electronic components. The soldered connections are characterised by good electrical and mechanical parameters. The paste composition eliminates the effect of lifting SMD components during soldering. The paste is available in 10ml/25g syringe.

Flux Type: TYP 1.1.2.C
Alloy: Sn95,5Ag3,8Cu0,7



Lead solders

2630 Series

This solder wire is used for applications requiring a higher activity, for components with poor solderability, especially for soldering operations on transformers, soldering on cooper cables with large diameters, where a stronger flux is needed to cope with a high thermal capacity of the components to be soldered.

Flux Type: TYPE 1.1.2
Alloy: Sn60Pb38Cu2
Flux Content: 2,2%
Melting Temperature: +183°C to +190°C



HS10 Series

is very efficient by its high activity, which results in quick spread of solder and electrical safe residues. Halide activated rosin flux Can be used for hand and robot soldering.

Flux Type: TYPE 1.1.2
Alloy: Sn60Pb40
Flux Content: 2,5%
Melting Temperature: +183°C to +190°C



HF32 Series

HF-32 is a no-clean flux cored solder wire. The activated, halide-free flux meets DIN EN 29454 Type 1.1.3 standard. HF-32 can be used for hand-soldering and automatic wire feed operations. Flux spatter from the formulation is minimal.

Flux Type: TYPE 1.1.3
Alloy: Sn60Pb38Cu2
Flux Content: 3,5%
Melting Temperature: +183°C to +190°C



HF32SMD Series

No-clean flux, can be used for hand-soldering and automatic wire feed operations.

- low flux content
- reduced rosin content
- high organic acid content - appropriate to SMT applications
- halide free

Flux Type: TYPE 1.1.3B
Alloy: Sn60Pb40
Flux Content: 1%
Melting Temperature: +183°C to +190°C





STANNOL® Solder - Overview

Stannol Solder	Product Code	Alloy	Melting Point °C	Application
Standard Alloys	STRATOLOY®			W
	STANNOLOY®	S-Sn63Pb37	183	W
	WSL3	S-Sn60Pb40	183 - 190	W
Lead-Free Alloys	ECOLOY® T	Sn99,9	232	S
	ECOLOY® TC	S-Sn99Cu1	227	W, H
	ECOLOY® TC300	S-Sn97Cu3	227 - 310	T, S
	ECOLOY® TS	S-Sn96Ag4	221	W, H
	ECOLOY® TS300	S-Sn97Ag3	221 - 224	T
	ECOLOY® TSC	S-Sn95Ag4Cu1	217	W, H
	ECOLOY® TSC305	S-Sn96Ag3Cu1	217 - 220	W, H
	ECOLOY® TSC263	Sn97,1Ag2,6Cu0,3	217 - 224	W, H
Lead-Free Alloys with Micro-Alloy-Additives	FLOWTIN® TC	Sn99Cu1+ML	227	W, H
	FLOWTIN® TC300	Sn97Cu3+ML	227 - 310	T, S
	FLOWTIN® TSC	Sn95Ag4Cu1+ML	217	W, H
	FLOWTIN® TSC305	Sn96Ag3Cu1+ML	217 - 220	W, H
De-Oxidised Alloys	DX10	Sn60Pb40P	183 - 190	W, T
	DX10 - HT	Sn63Pb37CuP	183	T
		Sn60Pb40CuP	183 - 190	T
High Melting Alloys	HMP	S-Pb92Sn5Ag3	296 - 305	H, T
	Sn8	Pb92Sn8	280 - 305	T
Low Melting Alloys	L-Lot 139	S-Bi58Sn42	139	W, S
	L-Lot 46		46	S

W = Wave soldering
T = Dip soldering

H = Manual soldering
S = Special applications

Liquid Fluxes

Flux	DIN EN ISO 9454-2	DIN EN 61190-1-1	F-SW	Application	lead-free	VOC-content	Acid Value [mg KOH]	Solid Content [%]	Density [g/cm ³]
500-3445	2.2.3.A	ORL0	34	S, F	bedingt limited	h	22,0	2,1	0,811
X33-08i	2.2.3.A	ORL0	23	S, F		h	17,0	2,0	0,805
EF330	2.2.3.A	ORL0	23	S, F		h	26,5	3,3	0,811
EF350	2.2.3.A	ORL0	34	S, F		h	27,0	3,5	0,811
500-3431BF	2.2.3.A	ORL0	34	S, F		h	34,4	4,4	0,814
500-6B	1.1.3.A	ROL0	32	S, F, D, B		h	23,0	6,0	0,801
450-13	1.1.2.A	ROM1	26	S, F, D, B		h	45,0	13,0	0,826
HW139	2.2.3.A	ORM0	23	S		g	21,0	2,5	0,914
WF300S/F	2.1.3.A	ORM0	23	S, F		f	37,0	4,6	S=1,012 S=1,016
900-7/1H	2.1.3.A	ORM1	25	S, F		h	10,0	1,7	0,806

S = Spray
F = Foam

D = Dipping
B = Brush

h = high
g = low
f = free

STANNOL® Solder Wire - Overview

Flussmittel <i>Flux</i>	Beschreibung <i>Description</i>	DIN EN ISO 9454-2	DIN EN 61190-1-1	F-SW	S-Sn60Pb40	Sn60Pb38Cu2	S-Sn62Pb36Ag2	S-Pb92Sn5Ag3	FLOWTIN® TSC Sn95Ag4Cu1+ML	FLOWTIN® TSC 305 Sn96Ag3Cu1+ML	FLOWTIN® TC Sn99Cu1+ML	ECOLOY® TSC S-Sn95Ag4Cu1	ECOLOY® TSC305 S-Sn96Ag3Cu1	ECOLOY® TC S-Sn99Cu1	Bemerkungen <i>Notes</i>
KS100	Elektronik-Lötdraht, halogenfrei, synthetische Harze <i>solder wire for electronics, halide-free, with synthetic resins</i>	1.2.3	RELO	33					•	•	•	•	•	•	Flussmittel auf Basis von Kunstharzen, halogenfrei, spritzarm <i>resin flux, halide-free, low spitting</i>
HF32	Elektronik-Lötdraht, halogenfrei <i>solder wire for electronics, halide-free</i>	1.1.3	ROLO	32	•	•	•					•		•	kolophoniumhaltiger Lötdraht, erfüllt erhöhte Anforderungen an elektrische Sicherheit <i>rosin-based solder wire, meets highest demands for electrical safety</i>
Kristall 400	Elektronik-Lötdraht, halogenfrei, synthetische Harze <i>solder wire for electronics, halide-free, synthetic resins</i>	1.2.3	RELO	33	•		•					•	•	•	farblose Rückstände, Flussmittelgehalt 2,2% <i>clear residues, flux content 2,2%</i>
HF34	Lötdraht, halogenfrei, geringer Harzanteil <i>solder wire, halide-free, low resin content</i>	2.2.3	ORM0	34	•										hochaktiv, in der Elektronik bedingt einsetzbar, gut auf Eisen, Nickel und Messing <i>highly active, limited use in the electronics, good wettability on iron, nickel and brass</i>
KS115	Elektronik-Lötdraht, halogenaktiviert, synthetische Harze <i>solder wire for electronics, halide-activated, with synthetic resins</i>	1.2.2	REM1	28					•	•	•	•	•	•	Flussmittel auf Basis von Kunstharzen, optimal aktiviert, spritzarm <i>resin flux, optimum activation, low spitting</i>
HS10	Elektronik-Lötdraht, halogenhaltig <i>solder wire for electronics, halide-activated</i>	1.1.2	ROM1	26	•	•	•	•				•	•	•	kolophoniumhaltiger Lötdraht, universell einsetzbar <i>rosin-based solder wire, perfect for a wide range of applications</i>
2630	Elektronik-Lötdraht, halogenhaltig <i>solder wire for electronics, halide-activated</i>	1.1.2	ROM1	26	•							•	•	•	stärker aktiviert als HS10 <i>higher activation level than HS10</i>
Kristall 511	Elektronik-Lötdraht, halogenaktiviert, synthetische Harze <i>solder wire for electronics, halide-activated, with synthetic resins</i>	1.2.2	REM1	26	•							•	•	•	farblose Rückstände, stark aktiviert <i>clear residues, high activation level</i>
S321	Lötdraht für Blechlötungen, Handwerk und Hobby <i>solder wire for soldering metal plates for handcrafts and hobby</i>	2.1.2	ORH1	24	•										für schlecht lötbare Oberflächen, wasserlöslich <i>for poorly solderable surfaces, watersoluble</i>

Wir verwenden hauptsächlich Spulen angelehnt an IEC 264-2-2. Die Spulenabmessungen können Sie der folgenden Tabelle entnehmen:

We mainly use reels similar to IEC 264-2-2. Please find the reel dimensions in the following chart:

Spule <i>Reel</i>	Bezeichnung <i>Code</i>	d1 (mm)	d2 (mm)	d3 (mm)	L1 (mm)	L2 (mm)
250g	L250	63	37	11	37,5	27,5
500g	L500	63	37	11	63	49
1000g	L1000	73	34	30	77	67

