mta

SOLDERING & DISPENSING

Soldering consumables

unitechnologies

THE ART OF PRECISION

Soldering wire for iron robots

In order to guarantee a long machine life span and to avoid difficulties in acquiring spare parts, a large selection of mta® consumables and spare parts is available from the Unitechnologies' customer service team.

Sn96Ag3Cu1 (SAC 305) - high efficiency alloy

This soldering wire is based on moderately activated synthetic resin for professional electronics use. It is recommended for use on gold, HAL or chemical tin surface finishes. The alloy used here is close to the eutectic composed of tin, silver and copper.

Application: due to the added silver, it can be used more particularly in cases where an improvement of wettability is required.

This alloy has been developed to achieve the lowest possible dissolution rate of copper and iron. Depending on the general conditions, an increase in the life time of soldering tips of up to 50% is possible.

The material complies with the Directive 2011/65/EU (RoHS)

Specifications

Components	%	OEL (mg/m3)	CAS n°	EINECS n°	Classification	melting point
Tin	96.0	2 ACGIH-TWA	7440-31-5	231-141-8	not classified	217.5° - 220°
Silver	3.0	0.1 directive | 2000/39/CE	7439-92-1	231-100-4	not classified limited use	
Copper	1.0	1 dusts and mists | 0.2 as fumes ACGIH TWA	7440-5-8	231-159-6	not classified	

Flux

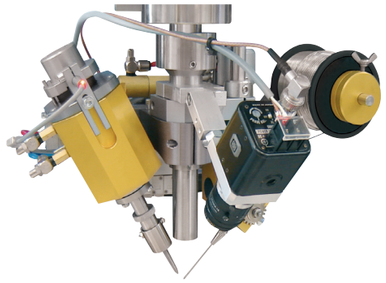
Halide activated, colophony-free flux based on a synthetic resin matrix according to the following norm:

- ANS J-STD-004 / class REL1

Flux of 3.5% ± 0.3%. The residue is non-corrosive and is of the type NO CLEAN. It can be removed by cleaning with alcohol.

References

Article n°	diameter (mm)	weight (kg)
5-0005-97-003-05	0.5	
5-0005-97-003-08	0.8	0.500
5-0005-97-003-10	1.0	



OEL: Occupational exposure limit
CAS: Product registration number
EINECS: European Inventory of Existing Commercial Chemical Substances

Safety standards on : www.unitechnologies.com

Sn99Cu1 - cost effective alloy

This soldering wire is based on moderately activated synthetic resin for professional electronics use. It is recommended for use on gold plated, HAL or chemical tin surfaces finishes. This is a eutectic alloy of tin and copper.

Application: frequently used for and accepted by the majority of soldering applications with iron head.

This alloy has been developed to achieve the lowest possible dissolution rate of copper and iron. Depending on the general conditions, an increase in the life time of soldering tips of up to 50% is possible.

The material complies with the Directive 2011/65/EU (RoHS)

Specifications

Components	%	OEL (mg/m3)	CAS n°	EINECS n°	Classification	melting point
Tin	99.3	2 ACGIH-TWA	7440-31-5	231-141-8	not classified	227°
Copper	0.7	1 dusts and mists | 0.2 as fumes ACGIH TWA	7440-5-8	231-159-6	not classified	227°

Flux

Halide activated, colophony-free flux based on a synthetic resin matrix according to the following norm:

- ANS J-STD-004 / class REL1

Flux of 3.5% ± 0.3%. The residue is non-corrosive and is of the type NO CLEAN. It can be removed by cleaning with alcohol.

References

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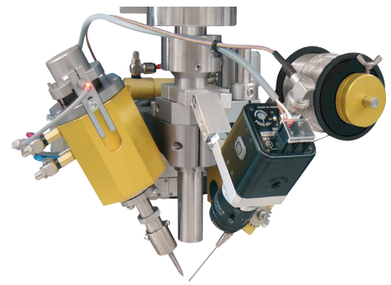

OEL: Occupational exposure limit
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Headquarters

Unitechnologies SA
Bernstrasse 5
CH-3238 Gals
Schweiz

T +41 32 338 80 80
F +41 32 338 80 99
info@unitechnologies.com
www.unitechnologies.com

Subsidiary USA

mta automation inc.
50-1 River Street
Old Saybrook, CT 06475
USA

T +1 860 399 1141
F +1 860 399 1159
info@mtaautomation.com
www.mtaautomation.com

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