

ALCOHOL-BASED FLUXES

ELECTRONIC




EMIL  OTTO

Do you have questions about our products?
We will be happy to advise you under: +49 (6123) 70 46-0



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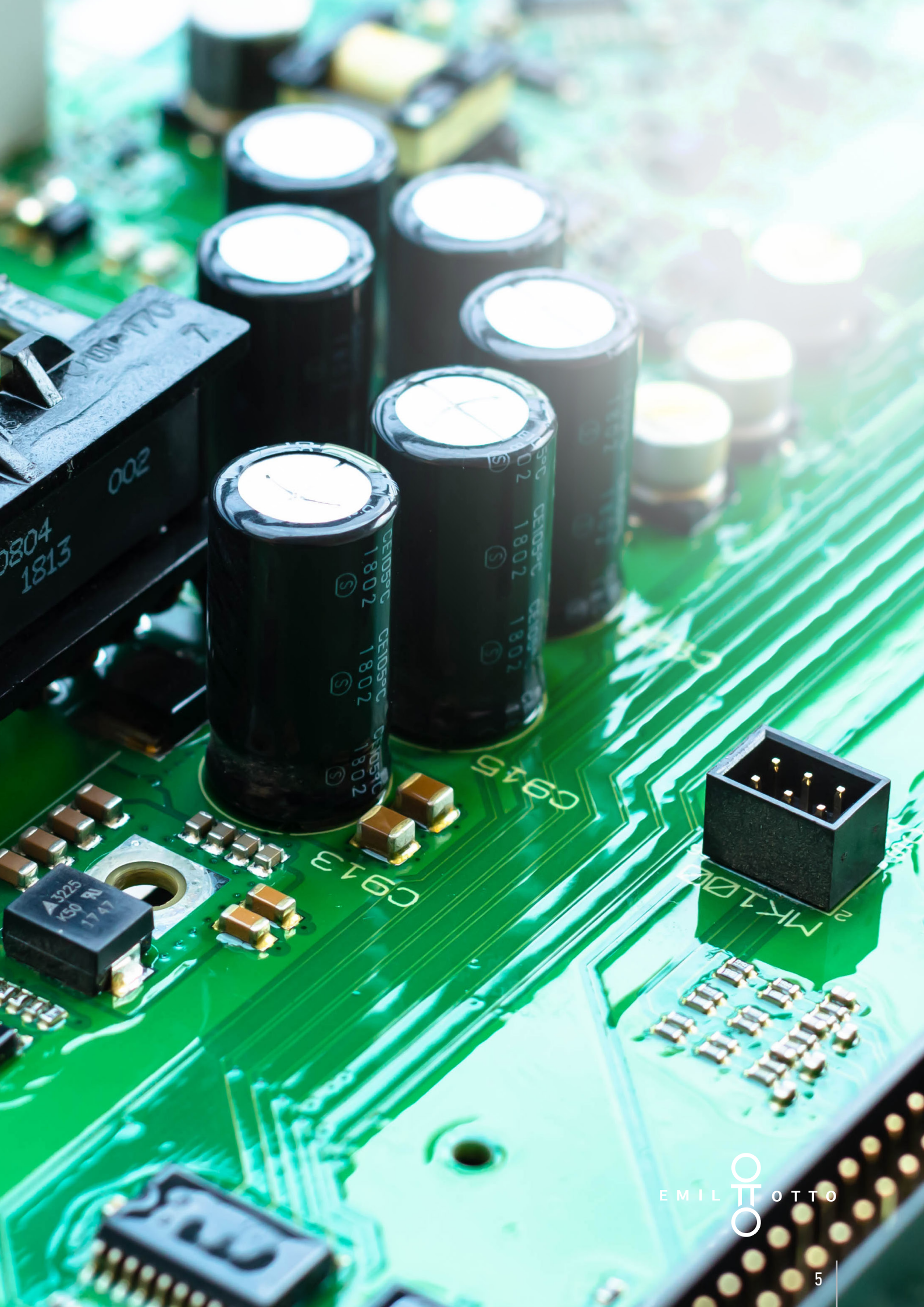


The name Emil Otto represents the highest quality since 1901. As an owner-run company, we have dedicated ourselves to the development and production of high quality fluxes and other consumables. In particular, the wide range of alcohol-based fluxes is used by market leaders at home and abroad.

The application spectrum for our alcohol-based fluxes is very diverse. The fluxes have very good soldering properties (capillarity and wetting of the PCB), as well as a wide process window. With a high thermal stability over a long time interval, the process activity is excellent. The residue behaviour is also very good, the PCBs are very clean after the soldering process.

At Emil Otto, we focus on your process and provide you with the suitable flux that perfectly fits your requirements.

Your Emil Otto Team



EO-B-001A (MULTIFLUX)

Cat.-No. 2070

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)
- Recommended for N2-systems
- Low solids content

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l

Metering bottle

Metering pen



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	2.2 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	14 – 16 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-001B (MULTIFLUX)

Cat.-No. 6069

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Granulate for 20 l

Metering pen

Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	18 – 21 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-001C (MULTIFLUX)

Cat.-No. 2069

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering,
dip soldering, strand tinning

Packaging units:

Canister 20 l
Granulate for 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	27 – 32 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-002A (MULTIFLUX)

Cat.-No. 6013

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)
- Recommended for N2-systems
- Low solids content

Application method:

Wave, selective, hand and repair soldering,
dip soldering

Packaging units:

Canister 20 l
Granulate for 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	2.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	16 – 19 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-002B (MULTIFLUX)

Cat.-No. 6002

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Typ ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Granulate for 20 l

Metering pen

Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	23 – 26 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-002B/X (MULTIFLUX)

Cat.-No. 6081

No Clean-Flux, alcohol-based

Di-carboxylic acids, activator complex, rosin (WEEE/RoHS compliant) [OSP compatible]

Typ ISO 9454: 2231 (2.2.3.A) // DIN-EN 61190-1-1: L0 (J-SDT004) (IEC ORL0)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Available as concentrate
- Broad process window (very high thermal stability, good activity over a long interval)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, manual and repair soldering as well as strand tinning

Packaging units:

Canister 5 l, 10 l and 20 l

Granulate for 5 l, 10 l and 20 l

Metering bottle 50 ml

Metering pen 8 ml



Technical data:

Appearance:	colourless, transparent liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	23 – 26 mg KOH/g
Activators:	di-carboxylic acid complex, resin additive
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-002C (MULTIFLUX)

Cat.-No. 6014

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, very high activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l
Granulate for 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/-0.003) g/ml
Acid number:	31 – 35 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-004 (MULTIFLUX)

Cat.-No. 6005

No Clean-Flux, alcohol-based

Di-carboxylic acids, synthetic resin, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Recommended for N2-systems
- Very low solids content
- High surface resistance of flux residues (SIR) (even with selective special testing)

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	1.8 wt.-%
Density at 20 °C:	0.793 (+/-0.003) g/ml
Acid number:	15 – 18 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-006A (MULTIFLUX)

Cat.-No. 6061

No Clean-Flux, alcohol-based

Di-carboxylic acids, halogen-free, resin-free (WEEE/RoHS compliant)

Type ISO 9454: 2131 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)
- Recommended for N2-systems
- Very low solids content

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 20 l
Granulate for 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless, clear liquid
Solids content:	2.0 wt.-%
Density at 20 °C:	0.794 (+/-0.003) g/ml
Acid number:	15 – 18 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex, resin-free
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-006B (MULTIFLUX)

Cat.-No. 6023

No Clean-Flux, alcohol-based

Di-carboxylic acids, halogen-free, resin-free (WEEE/RoHS compliant)

Type ISO 9454: 2131 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Granulate for 20 l
Metering pen
Metering bottle



Technical data:

Appearance:	colourless, clear liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.795 (+/-0.003) g/ml
Acid number:	23 – 26 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex, resin-free
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-006C (MULTIFLUX)

Cat.-No. 6062

No Clean-Flux, alcohol-based

Di-carboxylic acids, halogen-free, resin-free (WEEE/RoHS compliant)

Type ISO 9454: 2131 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Granulate for 20 l

Metering pen

Metering bottle



Technical data:

Appearance:	colourless, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/-0.003) g/ml
Acid number:	32 – 35 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex, resin-free
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-007A (MULTIFLUX)

Cat.-No. 6016

No Clean-Flux, alcohol-based

Di-carboxylic acids, very low resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)
- Very low solids content

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 20 l

Granulate for 20 l

Metering bottle 50 ml

Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	1.9 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	15 – 18 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-007B (MULTIFLUX)

Cat.-No. 6017

No Clean-Flux, alcohol-based

Di-carboxylic acids, very low resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Granulate for 20 l

Metering bottle 50 ml

Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.003) g/ml
Acid number:	22 – 25 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-007C (MULTIFLUX)

Cat.-No. 6018

No Clean-Flux alcohol-based

Di-carboxylic acids, very low resin content (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Granulate for 20 l

Metering bottle 50 ml

Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/- 0.003) g/ml
Acid number:	30 – 36 mg KOH/g
Activators:	di-carboxylic acids, very low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-008 (MULTIFLUX)

Cat.-No. 6019

No Clean-Flux, alcohol-based
Di-carboxylic acids, low resin content (WEEE/RoHS compliant)
Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)

Application method:

Wave, selective, hand and repair soldering,
dip soldering, strand tinning

Canister 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.004) g/ml
Acid number:	32 – 35 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-008A (MULTIFLUX)

Cat.-No. 6161

No Clean-Flux, alcohol-based; Di-carboxylic acid complex, synthetic resin,
halide-free (WEEE/RoHS compliant)
Type ISO-9454: 1231 // DIN EN 61190-1-1: (acc. J-STD 004): [IPC: REL0]



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Recommended for N2-systems

Application method:

Selective, wave and dip soldering and
strand tinning

Packaging units:

Canister 5 l and 20 l
Other packaging units on request



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	1.9 – 2.1 wt.-%
Density at 20 °C:	0.796 (+/- 0.004) g/ml
Acid number:	16 – 19 mg KOH/g
Activators:	di-carboxylic acid complex with synthetic resin
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-008B (MULTIFLUX)

Cat.-No. 6162

No Clean-Flux, alcohol-based, Di-carboxylic acid complex, synthetic resin, halide-free (WEEE/RoHS compliant)

Type ISO-9454: 1231 // DIN EN 61190-1-1: (acc. J-STD 004): [IPC: REL0]



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)

Application method:

Selective, wave and dip soldering and strand tinning

Packaging units:

Canister 5 l and 20 l
Other packaging units on request



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.9 – 3.2 wt.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	23 – 27 mg KOH/g
Activators:	di-carboxylic acid complex with synthetic resin
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-009A (MULTIFLUX)

Cat.-No. 6063

No Clean-Flux, alcohol-based

Di-carboxylic acids, no resin content (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)
- Recommended for N2-systems
- Very low solids content

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 20 l
Granulate for 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless, clear liquid
Solids content:	2.0 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	17 – 20 mg KOH/g
Activators:	di-carboxylic acids, resin-free
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-009B (MULTIFLUX)

Cat.-No. 6029

No Clean-Flux, alcohol-based, Di-carboxylic acids, halogen-free, no resin content (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l
Granulate for 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless, clear liquid
Solids content:	3.0 wt. -%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	25 – 28 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin
Solvents:	water with added alcohol
Flash point:	12 °C
Durability:	24 months

EO-B-009C (MULTIFLUX)

Cat.-No. 6064

No Clean-Flux, alcohol-based, Di-carboxylic acids, halogen-free, no resin content (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l
Granulate for 20 liters
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.003) g/ml
Acid number:	34 – 38 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-010A (MULTIFLUX)

Cat.-No. 6089

Flux alcohol-based, Di-carboxylic acids, synthetic resin complex (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless pale yellow, clear liquid
Solids content:	2.0 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	14 – 16 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-010B (MULTIFLUX)

Cat.-No. 6080

Flux alcohol-based, Di-carboxylic acids, synthetic resin complex (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless pale yellow, clear liquid
Solids content:	2.6 wt.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	17 – 21 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-010C (MULTIFLUX)

Cat.-No. 6090

Flux alcohol-based, Di-carboxylic acids, synthetic resin complex (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.003) g/ml
Acid number:	27 – 32 mg KOH/g
Activators:	di-carboxylic acids, synthetic resin complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-013 (MULTIFLUX)

Cat.-No. 6088

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless pale-yellow, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.004) g/ml
Acid number:	32 – 35 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-013A (MULTIFLUX)

Cat.-No. 6163

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and hand soldering

Packaging units:

Canister 5 l and 20 l

Other packaging units on request



Technical data:

Appearance:	colourless to yellowish, clear liquid
Solids content:	1.9 – 2.1 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	16 – 19 mg KOH/g
Activators:	di-carboxylic acid complex with synthetic resin
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-013B (MULTIFLUX)

Cat.-No. 6164

No Clean-Flux, alcohol-based, Di-carboxylic acid complex, synthetic resin, halide-free (WEEE/RoHS compliant)

Type ISO-9454: 1231 // DIN EN 61190-1-1: (acc. J-STD 004): [IPC: REL0]



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and hand soldering, strand tinning

Packaging units:

Canister 5 l and 20 l

Other packaging units on request



Technical data:

Appearance:	colourless to yellowish, clear liquid
Solids content:	2.9 – 3.2 wt.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	23 – 27 mg KOH/g
Activators:	di-carboxylic acid complex with synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

EO-B-016 (MULTIFLUX)

Cat.-No. 6102

No Clean-Flux, alcohol-based

Di-Carboxylic acid activator resin complex (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (acc. JSDT004) (IEC RELO)



Customer added values:

- Wide range of applications
- Outstanding soldering properties (penetration, wetting)
- Almost residue-free despite higher solids content
- Best soldering results even with overaged or overlaid PCBs and components
- Wide process window (very high thermal stability, very good activity over a very long interval)
- House test (SIR selective) passed

Application method:

Wave, selective, hand and dip soldering as well as strand tinning

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	5.0 wt.-%
Density at 20 °C:	0.799 (+/- 0.004) g/ml
Acid number:	32 – 38 mg KOH/g
Activators:	di-carboxylic acid activator resin complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-016A (MULTIFLUX)

Cat.-No. 6153

No Clean-Flux, alcohol-based, Di-carboxylic acid activator synthetic resin complex, halide-free (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (acc. J-STD-004) (IPC: RELO)



Customer added values:

- Wide range of applications
- Outstanding soldering properties (penetration, wetting)
- Almost residue-free despite higher solids content
- Best soldering results even with overaged or overlaid PCBs and components
- Wide process window (very high thermal stability, very good activity over a very long interval)
- Recommended for N2 systems
- House test (SIR selective) passed

Application method:

Wave soldering, selective soldering, hand and repair soldering, dip soldering

Packaging units:

Canister 5 l and 20 l



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	1.9 – 2.2 wt.-%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	13 – 16 mg KOH/g
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-016B (MULTIFLUX)

Cat.-No. 6154

No Clean flux, alcohol-based, Di-carboxylic acid activator synthetic resin complex, halide-free (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (acc. J-STD-004) (IPC: REL0)



Customer added values:

- Wide range of applications
- Outstanding soldering properties (penetration, wetting)
- Almost residue-free despite higher solids content
- Best soldering results even with overaged or overlaid PCBs and components
- Wide process window (very high thermal stability, very good activity over a very long interval)
- House test (SIR selective) passed

Application method:

Wave soldering, selective soldering, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 5 l and 20 l



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	2.8 – 3.2 wt.-%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	19 – 23 mg KOH/g
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-016C (MULTIFLUX)

Cat.-No. 6155

No Clean flux, alcohol-based, Di-carboxylic acid activator synthetic resin complex, halide-free (WEEE/RoHS compliant) [OSP compatible]

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (acc. J-STD-004) (IPC: REL0)



Customer added values:

- Wide range of applications
- Outstanding soldering properties (penetration, wetting)
- Almost residue-free despite higher solids content
- Best soldering results even with overaged or overlaid PCBs and components
- Wide process window (very high thermal stability, very good activity over a very long interval)
- House test (SIR selective) passed

Application method:

Wave soldering, selective soldering, hand and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 5 l and 20 l



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	3.8 – 4.2 wt.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	27 – 31 mg KOH/g
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-023A (MULTIFLUX)

Cat.-No. 6142

No Clean-Flux, alcohol-based

Resin-carboxylic and di-carboxylic acids complex (WEEE/RoHS compliant)

Type ISO 9454: 1231 (1.2.3.A) // DIN EN-61190-1-1 (acc. J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish liquid
Solids content:	2.0 wt.-%
Density at 20 °C:	0.793 (+/- 0.003) g/ml
Acid number:	5 – 7 mg KOH/g
Activators:	synthetic resin-carboxylic acid complex (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-023B (MULTIFLUX)

Cat.-No. 6143

No Clean-Flux alcohol-based

Resin-carboxylic and di-carboxylic acids complex (WEEE/RoHS compliant)

Type ISO 9454: 1231 (1.2.3.A) // DIN EN-61190-1-1 : L0 (acc. J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	8 – 10 mg KOH/g
Activators:	synthetic resin-carboxylic acid complex (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-023C (MULTIFLUX)

Cat.-No. 6144

No Clean-Flux, alcohol-based

Resin-carboxylic and di-carboxylic acids complex (WEEE/RoHS compliant)

Type ISO 9454: 1231 (1.2.3.A) // DIN EN-61190-1-1 (acc. J-STD-004) (IEC REL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish, amber liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	10 – 12 mg KOH/g
Activators:	synthetic resin-carboxylic acid complex (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-023D (MULTIFLUX)

Cat.-No. 6145

No Clean-Flux, alcohol-based, Resin-carboxylic and di-carboxylic acids complex (WEEE/RoHS compliant) [OSP-compatible]

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (acc. J-STD004) (IEC REL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	light yellow to amber coloured, clear liquid
Solids content:	5.0 wt.-%
Density at 20 °C:	0.799 (+/- 0.003) g/ml
Acid number:	16 – 18 mg KOH/g
Activators:	synthetic resin-carboxylic acid complex (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-023E (MULTIFLUX)

Cat.-No. 6146

No Clean-Flux, alcohol-based

Resin-carboxylic and di-carboxylic acids complex (WEEE/RoHS compliant)

Type ISO 9454: 1231 (1.2.3.A) // DIN EN-61190-1-1 (acc. J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish, amber liquid
Solids content:	15.0 wt.-%
Density at 20 °C:	0.81 – 0.83 g/ml
Acid number:	40 – 46 mg KOH/g
Activators:	resin-carboxylic acids and di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-024A (MULTIFLUX)

Cat.-No. 6149

No Clean-Flux, alcohol-based

Di-carboxylic acids, resin-complex (WEEE/RoHS compliant)

Type ISO 9454: 2231 (2.2.3.A) // DIN EN-61190-1-1 (J-STD-004) (IEC ORLO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish liquid
Solids content:	2.1 wt.-%
Density at 20 °C:	0.793 (+/-0.003) g/ml
Acid number:	13 – 16 mg KOH/g
Activators:	di-carboxylic acid resin complex, contains resin additive (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-024B (MULTIFLUX)

Cat.-No. 6148

No Clean-Flux, alcohol-based

Di-carboxylic acids, resin-complex (WEEE/RoHS compliant)

Type ISO 9454: 2231 (2.2.3.A) // DIN EN-61190-1-1 : L0 (acc. J-STD-004) (IEC ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent to yellowish liquid
Solids content:	3.2 wt.-%
Density at 20 °C:	0.796 (+/-0.005) g/ml
Acid number:	18 – 23 mg KOH/g
Activators:	di-carboxylic acid resin complex, contains resin additive (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-024C (MULTIFLUX)

Cat.-No. 6147

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, resin complex (WEEE/RoHS compliant)

Type ISO 9454: 2231 (2.2.3.A) // DIN-EN 61190-1-1 : L0 (acc. J-STD004B) (IEC ORL0)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Available as concentrate (granulate)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Granulate for 20 l



Technical data:

Appearance:	transparent, yellowish liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.796 (+/-0.005) g/ml
Acid number:	29 – 34 mg KOH/g
Activators:	di-carboxylic acid complex, contains resin additive (resin)
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-026 (MULTIFLUX)

Cat.-No. 6156

No Clean-Flux, alcohol-based

Di-carboxylic acid-resin complex, halide-free (WEEE/RoHS compliant) [OPS compatible]

Type ISO 9454: 1131 // DIN-EN 61190-1-1 (acc. to J-STD-004): L0 (IPC : ROL0)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Virtually residue-free despite higher solids content
- Best soldering results even with overaged or overlayered PCBs and components
- Wide process window (very high thermal stability, good activity over a long interval)
- Successful passing of internal test (SIR selective)
- Best results, especially with OSP and ENIG soldering surfaces

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Other packaging units on request



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	4.9 – 5.3 Gew.-%
Density at 20 °C:	0.799 (+/- 0.004) g/ml
Acid number:	32 – 38 mg KOH/g
Activators:	di-carboxylic acid-resin complex
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-026A (MULTIFLUX)

Cat.-No. 6157

No Clean-Flux, alcohol-based

Di-carboxylic acid-resin complex, halide-free (WEEE/RoHS compliant) [OPS compatible]

Type ISO 9454: 1131 // DIN-EN 61190-1-1 (acc. to J-STD-004): L0 (IPC : ROL0)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Virtually residue-free despite higher solids content
- Best soldering results even with overaged or overlayered PCBs and components
- Wide process window (very high thermal stability, good activity over a long interval)
- Successful passing of internal test (SIR selective)
- Best results, especially with OSP and ENIG soldering surfaces

Application method:

Wave, selective and manual soldering processes

Packaging units:

Canister 5 l and 20 l

Other packaging units on request



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	1.9 – 2.2 Gew.-%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	13 – 16 mg KOH/g
Activators:	di-carboxylic acid-resin complex
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-026B (MULTIFLUX)

Cat.-No. 6158

No Clean-Flux, alcohol-based

Di-carboxylic acid-resin complex, halide-free (WEEE/RoHS compliant) [OPS compatible]

Type ISO 9454: 1131 // DIN-EN 61190-1-1 (acc. to J-STD-004): L0 (IPC : ROL0)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Virtually residue-free despite higher solids content
- Best soldering results even with overaged or overlayered PCBs and components
- Wide process window (very high thermal stability, good activity over a long interval)
- Successful passing of internal test (SIR selective)
- Best results, especially with OSP and ENIG soldering surfaces

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

Other packaging units on request



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	2.8 – 3.2 Gew.-%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	19 – 23 mg KOH/g
Activators:	di-carboxylic acid-resin complex
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	12 months

EO-B-026C (MULTIFLUX)

Cat.-No. 6159

No Clean-Flux, alcohol-based

Di-carboxylic acid-resin complex, halide-free (WEEE/RoHS compliant) [OPS compatible]

Type ISO 9454: 1131 // DIN-EN 61190-1-1 (acc. to J-STD-004): L0 (IPC : ROL0)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Virtually residue-free despite higher solids content
- Best soldering results even with overaged or overlayered PCBs and components
- Wide process window (very high thermal stability, good activity over a long interval)
- Successful passing of internal test (SIR selective)
- Best results, especially with OSP and ENIG soldering surfaces

Application method:

Wave, selective and manual soldering processes as well as strand tinning

Packaging units:

Canister 5 l and 20 l

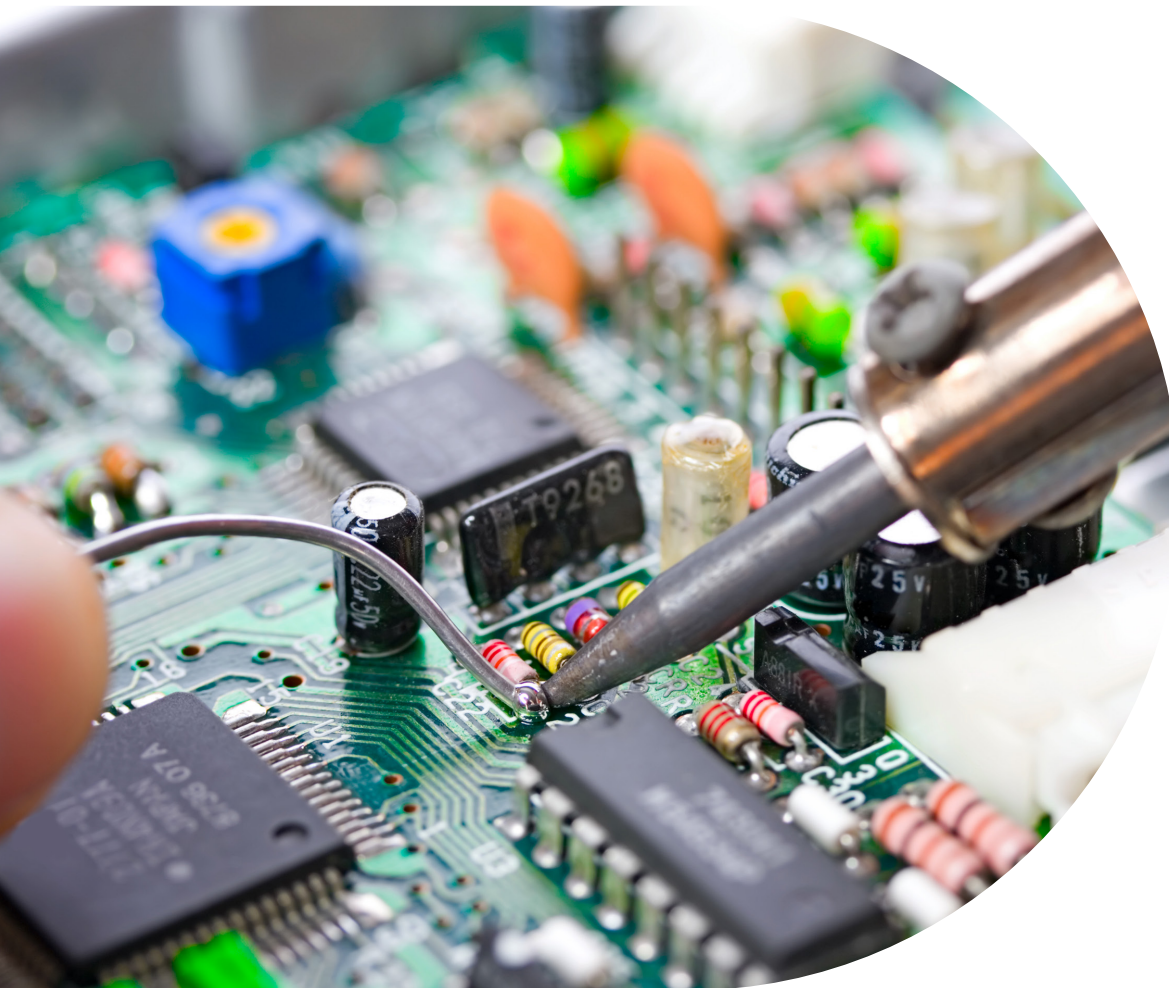
Other packaging units on request



Technical data:

Appearance:	colourless to amber, clear liquid
Solids content:	3.8 – 4.2 Gew.-%
Density at 20 °C:	0.795 (+/- 0.003) g/ml
Acid number:	27 – 31 mg KOH/g
Activators:	di-carboxylic acid-resin complex
Solvents:	short chain alcohols
Flash point:	12 °C
Durability:	12 months





EO-RF-G002 (REWORKFLUX)

Cat.-No. 4649 (#2953, #3965, #3966)

No Clean-Flux, alcohol-based
Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)
Type ISO 9454: 2231 // DIN-EN 61190-1-1 : L0 (acc. to J-STD004) (IEC ORL0)



Application method:

Selective soldering, manual soldering,
strand tinning

Packaging units:

Canister 5 l, 10 l, 20 l and 30 l

Metering bottle 50 ml

Metering pen 8 ml



Technical data:

Appearance:	colourless to amber coloured, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/-0.003) g/ml
Acid number:	30 – 36 mg KOH/g
Activators:	activator system of EO-G-002 (EO-Cat.-No. 6015), di-carboxylic acid complex
Solvents:	mixture of monohydric alcohols
Flash point:	12 °C
Durability:	12 months

EO-RF-G003 (REWORKFLUX)

Cat.-No. 3962 (#2954, #3962, #3963)

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1 : L0 (acc. J-STD 004) (IEC ORL0)



Application method:

Selective soldering, manual soldering, strand tinning

Packaging units:

Canister 5 l and 20 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to amber coloured, clear liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/-0.003) g/ml
Acid number:	30 – 36 mg KOH/g
Activators:	di-carboxylic acid complex
Solvents:	mixture of monohydric alcohols
Flash point:	12 °C
Durability:	12 months

EO-RF-WB30 (REWORKFLUX)

Cat.-No. 4638 (#2963, #3967, #3968)

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO-9454: 2131 // DIN-EN 61190-1-1 : L0 (acc. J-STD004) (IEC ORL0)



Application method:

Selective soldering, manual soldering, strand tinning

Packaging units:

Canister 5 l – 30 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/-0.003) g/ml
Acid number:	30 – 36 mg KOH/g
Activators:	Activator system of WB-30 ... (and variants), di-carboxylic acid complex
Solvents:	mixture of monohydric alcohols
Flash point:	12 °C
Durability:	12 months

EO-RF-WB35 (REWORKFLUX)

Cat.-No. 4639 (#3231, #3969, #3970)

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2131 // DIN-EN 61190-1-1 : L0 (acc. J-STD004) (IEC ORL0)



Application method:

Selective soldering, manual soldering, strand tinning

Packaging units:

Canister 5 l – 30 l
Metering bottle 50 ml
Metering pen 8 ml



Technical data:

Appearance:	colourless to light yellow liquid
Solids content:	4.0 wt.-%
Density at 20 °C:	0.797 (+/-0.003) g/ml
Acid number:	30 – 36 mg KOH/g
Activators:	activator system of WB-35 ... (and variants), di-carboxylic acid complex
Solvents:	mixture of monohydric alcohols
Flash point:	12 °C
Durability:	12 months

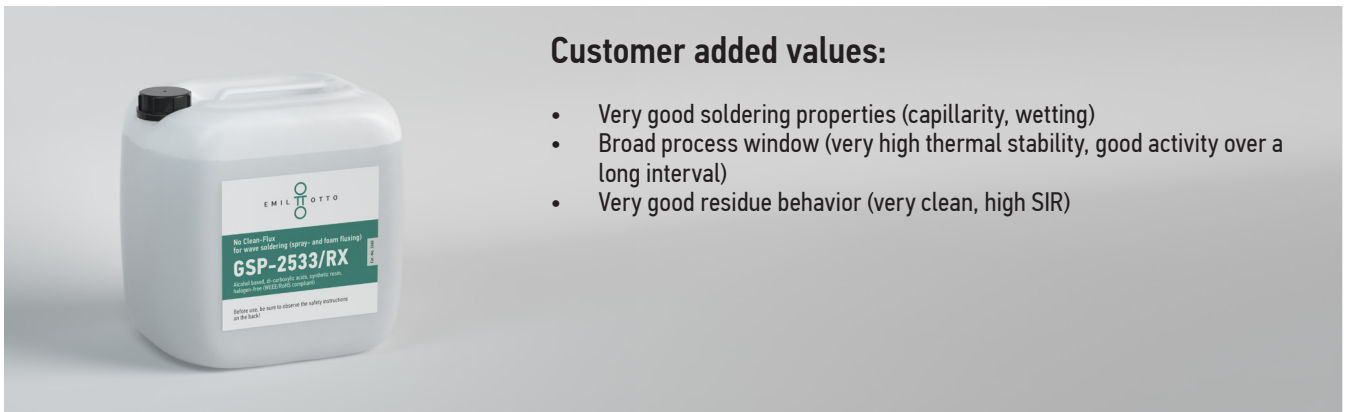
GSP-2533/RX

Cat.-No. 3060

No Clean-Flux, alcohol-based

Di-carboxylic acids, synthetic resin, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 // DIN EN 61190-1-1 : L0 (acc. J-STD004) (RELO)



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)

Application method:

Wave soldering (spray and foam fluxing)

Packaging units:

Canister 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.5 wt.-%
Density at 20 °C:	0.794 (+/-0.003) g/ml
Acid number:	22 – 25 mg KOH/g
Activators:	di-carboxylic acids with synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

GSP-2533/RX/OVAP

Cat.-No. 3545

No Clean-Flux, alcohol-based

Di-carboxylic acids, synthetic resin, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 // DIN EN 61190-1-1 : L0 (acc. J-STD004) (RELO)



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)

Application method:

Wave soldering (spray fluxing)

Packaging units:

Canister 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.5 wt.-%
Density at 20 °C:	0.794 (+/-0.003) g/ml
Acid number:	22 – 25 mg KOH/g
Activators:	di-carboxylic acids with synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

GSP-2633/RX (MULTIFLUX)

Cat.-No. 3061

No Clean-Flux, alcohol-based

Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 : L0 (J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave soldering, dip soldering and strand tinning

Packaging units:

Canister 5 l, 10 l and 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.6 wt.-%
Density at 20 °C:	0.798 (+/-0.005) g/ml
Acid number:	22 – 26 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

GSP-2633/RX/OVAP (MULTIFLUX)

Cat.-No. 3547

No Clean-Flux, alcohol-based
Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)
Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 (J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave soldering, dip soldering and strand tinning

Packaging units:

Canister 5 l and 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.6 wt.-%
Density at 20 °C:	0.798 (+/-0.005) g/ml
Acid number:	22 – 26 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

GSP-2933/RX (MULTIFLUX)

Cat.-No. 3062

No Clean-Flux, alcohol-based
Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)
Type ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 : L0 (J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave and selective soldering, dip soldering, and strand tinning

Packaging units:

Canister 5 l, 10 l and 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.9 wt.-%
Density at 20 °C:	0.799 (+/-0.005) g/ml
Acid number:	25 – 29 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

GSP-2933/RX/OVAP (MULTIFLUX)

Cat.-No. 3548

No Clean-Flux, alcohol-based
Di-carboxylic acid complex, halogen-free (WEEE/RoHS compliant)
Typ ISO 9454: 1231 (1.2.3.A) // DIN-EN 61190-1-1 : L0 (J-STD-004) (IEC RELO)



Customer added values:

- Wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behavior (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave and selective soldering, dip soldering, and strand tinning

Packaging units:

Canister 5 l and 20 l



Technical data:

Appearance:	colourless to reddish, clear liquid
Solids content:	2.9 wt.-%
Density at 20 °C:	0.79 (+/-0.005) g/ml
Acid number:	25 – 29 mg KOH/g
Activators:	halogen-free di-carboxylic acid complex
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

HR/D-110 (MULTIFLUX)

Cat.-No. 2080

No Clean-Flux, alcohol-based
Di-carboxylic acids, high resin content, halogen-free (WEEE/RoHS compliant)
Type ISO 9454: 1231 // DIN EN 61190-1-1: L0 (RELO)



Customer added values:

- Very wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, very high activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Selective soldering, manual and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l
Metering bottle
Metering pen



Technical data:

Appearance:	yellowish to brownish liquid
Solids content:	5.8 wt.-%
Density at 20 °C:	0.8 (+/-0.005) g/ml
Acid number:	25 – 28 mg KOH/g
Activators:	di-carboxylic acids, resins
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

HTW-48

Cat.-No. 3098

No Clean-Flux with halide-free activators (WEEE /RoHS compliant)
Type ISO-9454: 1131 DIN EN 61190-1-1 (acc. to J-STD 004) ROL0



Application method:

Selective and manual soldering, dip tinning, strand tinning

Packaging units:

Canister: 5 l, 20 l
Other packaging units on request



Technical data:

Appearance:	amber-coloured, clear liquid
Solids content:	54 wt. %
Density at 20 °C:	0.90 – 0.93 g/ml
Acid value:	125 – 140 mg KOH/g
Activators:	dicarboxylic acids, resin mixtures, halide-free
Solvents:	short-chain alcohols
Flash point:	12 °C

HTW-49

Cat.-No. 3090

No Clean-Flux with halide-free activators (WEEE /RoHS-compliant)
Type ISO-9454: 1131 (1.1.3.A) DIN-EN 61190-1-1 (acc. J-STD-004): ROL0



Application method:

Selective and manual soldering, dip tinning, strand tinning

Packaging units:

Canister: 5 l, 20 l
Other packaging units on request



Technical data:

Appearance:	amber-coloured, transparent liquid
Solids content:	53 – 56 wt. %
Density at 20 °C:	0.91 – 0.95 g/ml
Acid number:	120 – 145 mg KOH/g
Activators:	rosin, carboxylic and dicarboxylic acids-complex with special resin additive
Halide-content:	0 % (halide-free)
Solvents:	short-chain alcohols
Flash point:	12 °C

LÖTTINKTUR WFF

Cat.-No. LF-06

Alcohol-based flux, Di-carboxylic acids, high resin content, activated by halogenated amine (WEEE/RoHS compliant)

Type ISO 9454: 1123 // DIN EN 61190-1-1: M1 (ROM1)



Customer added values:

- Wide range of applications
- Soldering on ceramic substrates
- Braid tinning
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (water-soluble)

Application method:

Manual, repair and dip soldering, soldering on ceramic substrates, strand tinning

Packaging units:

Canister 20 l



Technical data:

Appearance:	yellowish to brownish, turbid liquid
Solids content:	38 wt. -%
Density at 20 °C:	0.81 – 0.90 g/ml
Acid number:	25 – 28 mg KOH/g
Activators:	balsamic resin, di-carboxylic acids, halogenated amine
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

PM-334 (MULTIFLUX)

Cat.-No. 2068

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content, halogen-free (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1: L0 (ORL0)



Customer added values:

- Very wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave and selective soldering, manual and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Metering bottle

Metering pen



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	3.0 wt.-%
Density at 20 °C:	0.796 (+/- 0.003) g/ml
Acid number:	18 – 21 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	24 months

RS-4004 (MULTIFLUX)

Cat.-No. 3091

No Clean-Flux, alcohol-based

Di-carboxylic acids, minimal resin content (WEEE/RoHS compliant)

Type ISO 9454: 2231 // DIN EN 61190-1-1 : L0 (acc. J-STD-004) (ORLO)



Customer added values:

- Very wide range of applications (multiflux)
- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, very high activity over a long interval)
- Good residue behaviour (very clean, high SIR)
- Successful passing of internal test (SIR selective)

Application method:

Wave and selective soldering, manual and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l

Metering bottle

Metering pen



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	3.5 wt.-%
Density at 20 °C:	0.797 (+/- 0.003) g/ml
Acid number:	23 – 27 mg KOH/g
Activators:	di-carboxylic acids, low resin content
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

S-250/FR

Cat.-No. 6420

No Clean-Flux, alcohol-based

Di-carboxylic acids, synthetic resin, halogen-free (WEEE/RoHS compliant)

Type ISO-9454: 1231 // DIN EN 61190-1-1 : L0(acc. J-STD-004) (RELO)



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a long interval)
- Very good residue behaviour (very clean, high SIR)

Application method:

Wave soldering (spray and foam fluxing)

Packaging units:

Canister 20 l



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	2.5 wt. -%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	21 – 25 mg KOH/g
Activators:	di-carboxylic acids with synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

S-250/FRO

Cat.-No. 6400

No Clean-Flux, alcohol-based

Di-carboxylic acids, synthetic resin, halogen-free (WEEE/RoHS compliant)

Type ISO-9454: 1131 // DIN EN 61190-1-1 1 : L0 (acc. J-STD-004) (ROLO)



Customer added values:

- Very good soldering properties (capillarity, wetting)
- Broad process window (very high thermal stability, good activity over a large interval)
- Very good residue behaviour (very clean, high SIR)

Application method:

Wave soldering (spray fluxing)

Packaging units:

Canister 20 l



Technical data:

Appearance:	colourless to light yellow, clear liquid
Solids content:	2.5 wt. -%
Density at 20 °C:	0.794 (+/- 0.003) g/ml
Acid number:	21 – 25 mg KOH/g
Activators:	di-carboxylic acids with synthetic resin
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months

SSK-15

Cat.-No. 2041

No Clean-Flux, alcohol-based

Di-carboxylic acids, high resin content, halogen-free (WEEE/RoHS compliant)

Type ISO-9454: 1131 // DIN EN 61190-1-1 1 (acc. J-STD-004): L0 (ROLO)



Customer added values:

- Wide range of applications
- Very good soldering properties (capillarity, wetting)
- Broad process window (high thermal stability, good activity over a long interval)

Application method:

Manual- and repair soldering, dip soldering, strand tinning

Packaging units:

Canister 20 l



Technical data:

Appearance:	yellowish to amber, clear liquid
Solids content:	15.0 wt.-%
Density at 20 °C:	0.830 (+/-0.005) g/cm ³
Acid number:	45 – 55 mg KOH/g
Activators:	resins, di-carboxylic acids
Solvents:	short-chain alcohols
Flash point:	12 °C
Durability:	12 months



PRODUCTS FOR THE ELECTRONICS INDUSTRY

ELECTRONIC



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