



EIE Enterprise (M) Sdn. Bhd. (944691-T)

EIE ST 5005 Bio-Cleaner

DESCRIPTION

EIE ST 5005 Bio-cleaner is a highly concentrated alkaline liquid cleaner which is added to water to make a non-foaming solution for removing rosin flux residues and water soluble flux residues. EIE ST 5005 will react with rosin residue and saponified the rosin to form soaps which are water-soluble. The resulting rosin soap and any water-soluble activator salt can then be rinsed away with water. The unique chemistry of 5005 is designed to effectively remove all rosin and water soluble fluxes residues.

FEATURES CHARACTERISTICS

- Halide-free alkaline cleaner
- Phosphates, caustic soda and silicon free
- Biodegradable
- Non-foaming during saponification

APPLICATION

EIE ST 5005 Bio-cleaner is specifically designed for use in automatic in-line spray cleaning equipment and in batch type washer machines. For typical applications a (5 – 10)% by volume solution of EIE ST 5005 is required. The cleaning power of 5005 Bio-cleaner can be varied by varying the concentration % dosage and the operating temperature. Typically optimum efficiency is achieved at (50 – 65) °C with a dwell time of (90 – 180) seconds. When the operating pH falls below 9.5, additional Bio-cleaner should be added to bring the pH to above 10.0 to restore its cleaning ability. After saponification reaction, rinsing (2 – 4) minutes with hot water at (50 – 65) °C follow by final de-ionized water rinse for optimum cleanliness is recommended. For general guide, the following table shows the recommended concentration dosage of 5005 and temperature setting range.

PRODUCT	CONCENTRATION (% by volume)	OPERATING TEMPERATURE °C
• No-clean/RMA rosin solder-paste assemblies	(8 – 15)	(50 – 65)
• Liquid Rosin flux	(8 – 12)	(50 – 65)
• Organic water-soluble flux	(5 – 8)	(40 – 50)

PHYSICAL PROPERTIES

Appearance	Straw to yellowish liquid
Specific Gravity @25°C	1.02 ± 0.01
pH	11.0 – 11.5
Flash Point (COC)	> 105°C

HANDLING AND SAFETY

EIE ST 5005 Bio-cleaner is an alkaline cleaner and should be used in well-ventilated areas. Standard safety precautions should be followed to protect workers handling this product.

DISPOSAL

The spent cleaning solution is biodegradable. Local regulator should be consulted for disposal on factors like pH, COD level and metals contents etc.

PACKING

25 kg / carboy and 204 kg / drum