

## PCB CHEMICALS

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### Seno Applicators

The Seno applicators offer a safe, clean and efficient alternative to processing in trays. Each applicator contains safe ready to use PCB chemistry. All work at room temperature, the chemistry being completely sealed in a container terminated by a sponge with a valve mechanism which dispenses precisely the right amount on each board. When not in use the sponge is protected by a cap. All applicators are waste free and when exhausted can be disposed of without the need for any special precautions. Each applicator contains safe to use chemistry and there is no need for special precautions when using them. The developers for instance being totally free from Sodium Hydroxide. Each applicator has a shelf life of at least two years. With the exception of etching the complete range of PCB processing sequence can be carried out with the applicators.



<b>SN100</b>	Photoresist applicator. Easy to apply, very quick drying positive working Photoresist for applying to uncoated laminates.
<b>SN110</b>	A universal developer applicator which develops all alkaline positive working resists.
<b>SN111</b>	Soft developer. As SN110 but weaker in strength making it ideal for use with freshly applied resists such as that contained in the SN100.
<b>SN120</b>	Resist strip applicator, quickly removes all remaining Photoresist from etched boards.
<b>SN130</b>	De-Ox applicator, removes all oxidisation from the etched copper circuit.
<b>SN140</b>	A flux applicator which applies a protective lacquer to a clean etched circuit, preventing any further oxidisation. Lacquer also acts as an excellent solder flux.



Order Code	Description	1+	3+	Qty:
600-001	SN100 Seno Photoresist Applicator	£6.75	£6.10	
600-003	SN110 Seno Normal Developer Applicator	£6.25	£5.60	
600-002	SN111 Seno Soft Developer Applicator	£6.25	£5.60	
600-004	SN120 Seno Photoresist Strip Applicator	£6.25	£5.60	
600-005	SN130 Seno DE-OX Applicator	£6.25	£5.60	
600-006	SN140 Seno Flux Applicator	£6.25	£5.60	
				<b>BUY</b>

A range of safe-to-use PCB chemicals which have been carefully selected not only for their unique processing properties and economical cost but also for their low hazardous content. As with any PCB processing we recommend that during handling and use appropriate protective clothing is used.

## Liquid Photoresists

### Seno 1000 Photoresist

A professional ready-to-use positive working liquid Photoresist which shows a very strong contrast in developing and has very good adhesion and spreading properties - ideal for the finest circuit board application. The Photoresist can be applied to uncoated PCB laminate by spray, dip and spin coat-ing machines.



Order Code	Description	1+	Qty:
600-031	Seno 1000 Photoresist 1Ltr	£75.00	
			<b>BUY</b>

## Photoresist Developers

## Liquid Concentrate

4006V05. The premium developer for processing our many types of Photoresist, including aqueous dry film laminate. Very safe and stable and contains no Sodium Hydroxide. The 1 litre concentrate will make 10 litres of working solution. Normal developing time only 30 seconds.



Order Code	Description	1+	3+	Qty:
600-010	4006V05 Seno Liquid Dev conc 1Ltr for 10Ltr	£11.50	£10.35	
				<b>BUY</b>

## Universal Powder

4007V00. A safe stable powder developer lasting 3-4 weeks in made up form. It develops boards in 30 seconds, with a 30 to 1 safety margin and contains no Sodium Hydroxide. Supplied either as a 50g pack to make 1 litre or a 500g pack to make 10 litres.

Order Code	Description	1+	3+	Qty:
600-008	4007V00 Seno Developer 50g makes 1 Ltr	£1.15	£1.05	
600-007	4007S005 Seno Universal Developer 500g makes 10 Ltrs	£6.95	£6.25	
				<b>BUY</b>

## Dry Film Photoresist Developer

A special formulation of developer specifically for negative working dry film Photoresist laminates.

Order Code	Description	1+	Qty:
500-164	Developer Conc for Dry Film 1L makes 25L	£10.95	
500-162	Developer Conc for Dry Film 5L makes 125L	£43.60	
			<b>BUY</b>

## Etchants

### Etch-in-the-bag kit

A unique etch-in-the-bag kit containing Ferric Chloride pellets in a dual chamber etching bag. Also included is a measuring tube for hot water, neutraliser for when the solution is exhausted and a storage box. Each kit will etch at least 12 Eurocards 100 x 160mm.



Order Code	Description	1+	3+	Qty:
600-017	Seno SN3300 Etch in bag	£8.95	£7.95	
				<b>BUY</b>

### Ferric Chloride Etchant

Ferric Chloride etchant in either dry pellet form or as a ready-to-use liquid.

#### Ferric Chloride Pellets

The pellets can be mixed with hot water to make etching solution. Supplied in convenient pellet form which reduces the high carriage charges normally associated with the despatch of liquid etchants.

250g - makes 0.5 litre of etching solution

500g - makes 1.0 litre of etching solution

2.5kg - makes 5.0 litres of etching solution



Order Code	Description	1+	3+	Qty:
600-011	Seno Etchant 250g for 1/2Ltr	£1.70	£1.55	
600-012	Seno Etchant 500g for 1 Ltr	£3.05	£2.75	
600-013	Seno Etchant 2.5Kg for 5 Ltrs	£10.95	£9.85	
				<b>BUY</b>

### Ferric Chloride Solution

A special formulation of Ferric Chloride to etch all types of copper circuit boards, as well as other metals such as stainless steel and brass etc. Supplied as full strength 45 Baumé - can be diluted by an additional 30% for use with copper. Available in 5 or 25 litre containers.

Order Code	Description	1+	3+	Qty:
600-015	Seno PC145 (5LTR) Liquid Etchant	£11.50	£10.35	<a href="#">CONTACT US</a>
600-016	Seno PC145 (25Ltr) Liquid Etchant	£38.50	£34.75	<a href="#">CONTACT US</a>
				<b>BUY</b>

## Fine Etch Crystals

A much cleaner etchant than Ferric Chloride. Slightly longer etching times should be expected and a tank of made up solution will only last 3-4 weeks although the life can be extended by adding a little more powder to the solution. Supplied in powder form to make 5 litres.



Order Code	Description	1+	3+	Qty:
600-014	1.1KG Fine Etch Crystals for 5 Ltrs	£17.50	£15.75	
				<b>BUY</b>

## Silver Etchant

This Ferric Nitrate based etching solution can be used to make Silver Jewellery and other Silver Etching Applications. 500g of powder makes 1 litre of etching solution. For best results use at 45°C in a Rota-Spray machine.

Order Code	Description	1+	Qty:
600-050	Ferric Nitrate Etchant For Silver 500g For 1 Litre	£16.85	
			<b>BUY</b>

## Photoresist Strippers

A stripper to remove the Photoresist from the etched circuit.

A 1 litre concentrate which makes 5 litres of working solution. Ideal for use in a resist strip tank.

Order Code	Description	1+	3+	Qty:
600-019	PC155 Resist Strip 1 Ltr makes 5 Ltrs	£11.50	£10.50	
				<b>BUY</b>



## Immerse Tin Plating

## Seno Tin Powder

A unique stable immerse tin powder that although dissolved in water at 50°C, it actually plates at room temperature.

Order Code	Description	1+	Qty:
600-020	Seno Immerse Tin 90g for 1ltr	£11.50	
600-021	Seno Immerse Tin 450g for 5Ltr	£34.60	
			<b>BUY</b>



The tin molecules deposited at room temperature are very small making the coating fine, hard and homogenous. Working solution has 6 months shelf life, unmixed powder has unlimited shelf life.

## Ferric Chloride Stain Remover

A unique powder which may be utilised in a variety of methods for the removal of Ferric Chloride stains from clothing, PCB tanks, work benches and other affected areas. Concentration required will depend upon the nature of stain requiring removal but typical concentration in solution is between 100g/200ml and 100g/1000ml of water. The powder may also be used direct on badly affected areas. Supplied as a 1 Kg pack.



Order Code	Description	1+	3+	Qty:
600-039	Ferric Chloride Stain Remover 1Kg	£12.95	£11.65	
				<b>BUY</b>

## PC182 Scrub Block

An effective silicone block for cleaning and degreasing copper clad boards.

Order Code	Description	1+	10+	Qty:
900-009	Seno PC182 Scrub Block	£1.90	£1.60	
				<b>BUY</b>



## Scotchbrite Pads

A general purpose scouring pad ideal for cleaning PCBs. Supplied in packs of 10.

Order Code	Description	1+	Qty:
500-017	Scotchbrite pads (pk of 10)	£6.75	
			<b>BUY</b>

## Universal Solvent



A general purpose non-toxic water miscible solvent. Removes unwanted solder flux from PCB, strips Photoresist from etched boards and removes protective seal from Gedakop.

Order Code	Description	1+	Qty:
600-024	SN4010 50ml Universal Solvent	£2.70	
600-025	SN4010V01 1Ltr Universal Solvent	£16.50	
			<b>BUY</b>

## Microtrak PCB Chemicals

A range of PCB processing chemistry specifically for MICROTRAK Pre-coated PCB laminates.

### Microtrak CPD5 Developer

High-resolution, positive-working developing solution suitable for use in a tank or processing tray. CPD5 is less aggressive than some other developers which contain Sodium Hydroxide and allows much greater control over the development process. It is also less affected by exposure to air and so has a much longer shelf life.

The solution is supplied in concentrate form and is mixed 4 parts water to 1 part developer. It should be used at room temperature (18-24°C). Available in 1 litre (makes 5 litres), 5 litre (makes 25 litres) pack sizes.

**Only for use with Microtrak.**



Order Code	Description	1+	Qty:
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12-15500	Microtrak CPD5 developer 1 ltr conc makes 5 ltr	£14.40	
12-15501	Microtrak CPD5 developer 5 ltr conc makes 25 ltr	£55.30	<a href="#">CONTACT US</a>
			<b>BUY</b>

## Microtrak CPS3 Resist Stripper

An alkaline stripping solution supplied as 1 ltr. to make 5 ltrs or 5 ltrs to make 25 ltrs. Solution is used at 55-60°C.

Order Code	Description	1+	Qty:
12-15061	Microtrak CPS3 stripper 1 ltr conc makes 5 ltr	£21.20	
12-15062	Microtrak CPS3 stripper 5 ltr conc makes 25Ltr	£88.50	<a href="#">CONTACT US</a>
			<b>BUY</b>

