



RS 5000 NON-VOC Resist Stripper

DESCRIPTION

RS5000 resist stripper is a NON-VOC aqueous solution formulated to strip aqueous dry film photo- resist and alkaline soluble screen printing inks. RS5000 contains no volatile organic carbon components to eliminate emission by exhaust. RS5000 has copper brightening agents to give a uniform clean copper appearance. RS5000 has excellent stripping capacity and a rapid strip rate for high-speed horizontal applications. RS5000 can also be used in a batch mode. As RS5000 becomes saturated with resist, it may become necessary to add a suitable de-foamer such as BB200 or BB300.

RS5000 resist stripper contains < 1% by wt. nitrogen compounds. Most common resist strippers are based on amines such as monoethanolamine (MEA), which has a very high nitrogen content. RS5000 has been formulated for both NON-VOC and very-low nitrogen applications.

OPERATING PARAMETERS

Make-Up	5-15% by volume diluted with water
Temperature	125-140°F (52-60°C)
Immersion Time	30 seconds- 2 minutes in batch mode. Two tanks recommended. Set the breakpoint to 50% or lower in horizontal mode
Process	Horizontal or batch
Agitation	Mechanical in batch mode
Ventilation	Advised
Tanks	Polypropylene, Polyethylene, PVC
Racks and Baskets	PVC Coated
Heaters	Stainless steel or quartz heater.
Filtration	Recommended to extend solution life.



PHYSICAL PROPERTIES

Specific gravity	1.30-1.35
Appearance	Clear to light yellow liquid
pH	>12
Odor	None
Flash Point	>200F
VOC content	0% by weight, or 0 g/L

CONTROL PROCEDURES

Replenishment should be done by analysis, see Section V. below.

ANALYSIS

Reagents and equipment needed

1.0 N HCl
Phenolphthalein Indicator
10.0 ml pipet
50 ml buret
250 ml Erlenmeyer Flask
DI water

Procedure

1. Pipet a 10.0 mL sample from the production bath into a 250-ml flask and dilute to ~100 mLs with DI water.
2. Add approximately 2-3 drops of Phenolphthalein indicator. The solution color should be pink.
3. Titrate with 1.0 N HCl to a clear endpoint.

4. Calculation:

$$\text{RS5000 Concentration (\% by volume)} = (\text{mL of HCl}) \times (\text{N of HCl}) \times 1.25$$

SAFETY AND STORAGE

RS5000 is a caustic solution and should be handled with care. Use protective gloves, and eye-ware during handling. Ventilation is highly recommended, and breathing fumes should be avoided. Do not store in direct sunlight, high temperature or below freezing.

WASTE TREATMENT

Please ask a Florida CirTech technical sales representative for more information regarding waste treatment of this chemistry and our complete line of waste treatment line if additional help or information is desired.

MISCELLANEOUS

Available in 5-gallon pails and 55-gallon drums. Consult MSDS sheet for additional information.