

How do I increase the etch rate?

How do I reduce the etch rate?

Do I need to dilute the etchant?

How do I reduce undercutting?

Appearance

pH

Etch Rate at 40 oC

Etch Capacity (rate declines at ~70%)

Shelf Life

Storage Conditions

Filtration

Recommended Operating Temperatures

Rinse

Photoresist Recommendations

Select Compatible Materials

Select Incompatible Materials

Compatible Plastics

Country of Origin

Availability

Available Sizes

Packaging

Packing

Isotropy

Incompatible Chemicals

Additional Information

1. The rate will approximately double with every 10 oC increase in temperature.

2. Increase the rate of stirring or agitation.

Adding 1 part deionized water to 2 parts etchant will reduce the etch rate approximately 50%.

No, it is ready to use.

Increase the rate of stirring or agitation.

Brown

Acidic

1 mil/minute (etches 1 oz copper in 90 seconds)

19 oz/gallon

1 year

Ambient

1 mm

20-80 oC (30-40 oC most common)

Deionized water

KLT6000 Series, KLT 5300 Series, HARE SQT (SU-8 type), TRANSIST, or PKP Type II <http://transene.com/semi/#photo>

Au, oxide, nitride, alumina

See <http://transene.com/etch-compatibility/> for more details.

Al, Ni, Ti

HDPE, PP, Teflon, PFA, PVC

USA

Stock item

Quart, Gallon, 5 Gallon, 55 Gallon

HDPE

4 gallons/case

Isotropic

Strong bases, nitric acid

Immersion or spray application

to