

# STREET KLEEN Dicing Lubricant

As technology advances, device sizes are smaller and smaller. Also, as each device decreases in size the wafer as a whole has increased. Therefore, Genex Corporation has formulated **Street Kleen**. A biodegradable, non-toxic lubricant designed specifically for dicing devices and slicing ingots. Easily injected into the saw machines water system. **Street Kleen** reduces the surface tension flowing from the saw's injection system, and is carried directly to the dicing blade.

Dicing brittle materials such as Gallium Arsenide and ceramics require extra methods to routinely achieve high yields. **Street Kleen** provides the cooling required to minimize chipping, increase bond pad shear strength, and increase blade life.

As wafer sizes continue a larger transition, **Street Kleen** becomes essential for quality dicing. Large diameter wafers allow water to settle on top of the wafer. **Street Kleen** breaks down the water and directs the water into the dicing blades path and kerf.

Extending blade life reduces set-up time and time required to dress blades. Consider not only the extended blade life benefits, but furthermore, the labor saving benefits of **Street Kleen**. **Street Kleen** is best used with the **minitron MX-25** Lubricant Dispenser.



## FAQ - Frequently asked Questions

### Is **Street Kleen** soap?

No. **Street Kleen** is specifically developed for the semiconductor industry. While soaps leave residues an can cause contamination, **Street Kleen** rinses free, without concern of sodium's and other ingredients that may contaminate delicate circuitry.

### Can **Street Kleen** be used in a closed loop system?

Yes proper filtration will not affect **Street Kleen's** performance.

### How long can I store **Street Kleen**?

**Street Kleen** is a homogeneous mixture that will not settle during storage. Shelf life is indefinite. However, as with all materials we suggest rotating your inventory.

### How do I use **Street Kleen**?

A standard metering pump, commercially available can be retrofitted into the dicing saw water lines. For a plug and play solution **minitron** offers the MX-25 lubricant system.

### What is the best dilution ratio?

Optimum reduction rates are best determined „in-house“. Genex suggests that a 100:1 dilution is a proper starting reduction level. Most customers have maintained this reduction level.

### Which quantities of **Street Kleen** are available?

**Street Kleen** comes packaged in 25l pails.

### What is the benefit of using **Street Kleen**?

- **Street Kleen** minimizes chipping
- **Street Kleen** reduces contamination on the bonding surface. As a result the bonding process will experience higher shear strengths and less variance
- **Street Kleen** reduces blade wear, Blade consumption will decrease. Therefore correspondingly will the set-up time.

### What materials can **Street Kleen** be used with?

**Street Kleen** is compatible with all semiconductor materials. Dicing GaAs, Si, InP or ceramics - **Street Kleen** will save time and money!

## MX-25 / MX-W Lubricant System

The **minitron MX-25 / MX-W** lubricant dispensing system accurately controls the dilution of **Street Kleen** with a house supplied water source. The dilution ratio can be set between 1:50 and 1:500 and stays independent of the water pressure or the flow rate.

By adding Street Kleen into the saw's cooling water, the cooling of the dicing blade and the penetration of cooling fluid into the kerf increases. This lowers blade wear and reduces chipping. By causing a uniform wetting of the wafer **Street Kleen** reduces contamination on the substrate.

- Waterpressure powered pump
- Rigid Frame
- Dilution ratio from 1:50 to 1:500
- Frame provides space for 25l **Street Kleen** pail
- No electricity or compressed air needed.

**MX-25:** with frame for 25l pail

**MX-W:** for wallmounting



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