



KerfAid™ Dicing Additive

KerfAid dicing Additive when used in conjunction with dicing saw cutting water provides the ultimate in saw cut quality.

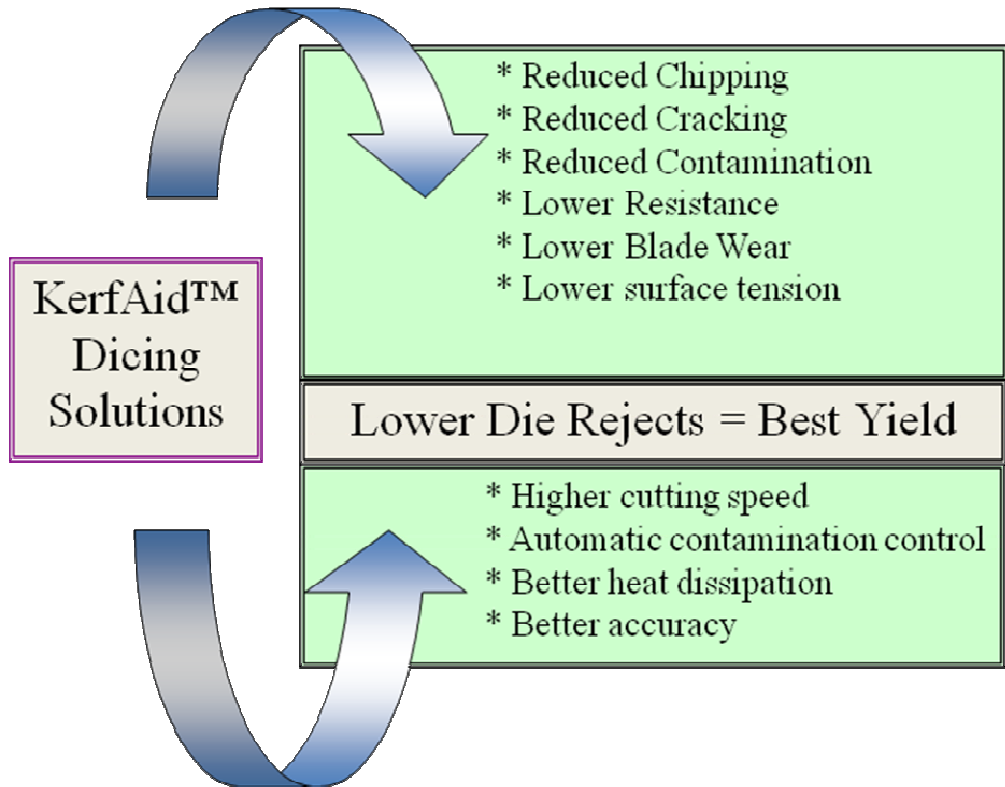


Applications

- Saw dicing
- Wafer thinning
- Milling
- Shaping

- Bond Pad Staining
- Blade Wear
- Chipping
- Cracking
- Cleanliness
- Throughput
- Galvanic Corrosion

KerfAid = Best Yield



Typical Physical Properties

Specific Gravity @ 25°C	Value
Solubility @25°C in Water, % by weight	1.01 - 1.05
Viscosity @20°C, cSt	100
Flash Point, °C	11.54
Vapor Pressure @25°C, mmHg	N/A
Volatiles (EPA Method 24), wt %	23.8
Surface Tension@25°C, mN/m	Negligible
Color	31-36
Odor	Pink
Conductivity, µS/cm	Mild
Ph	120
	7 - 9.5

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How KerfAid Works

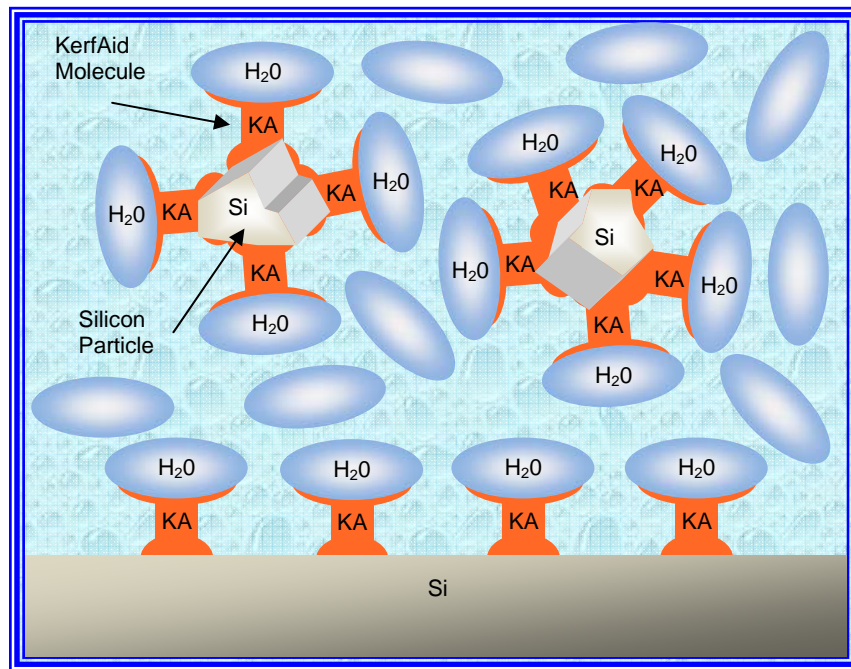
Components of KerfAid

KerfAid has four main components:

Surfactant, Lubricant, Corrosion Inhibitor and ESD preventative.

Surfactant

KerfAid molecules have a hydrophobic (water hating) end that bonds to silicon and a hydrophilic (water loving) end that bonds to water. This enables water to wash away loose particles and reduces surface tension allowing the water to thoroughly wet the wafer.



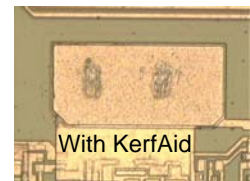
$$Re = \frac{UL}{\nu}$$

Lubrication

The lubrication increases viscosity which reduces the Reynolds number. As the Reynolds number reduces, turbulent flow is replaced by lamina flow.



Without KerfAid



With KerfAid

Corrosion Inhibitor

Galvanic corrosion on bond pads leads to poor wire bonding and failure of the device. The corrosion inhibitor works with the chemistry of the bond pad and the cutting water thereby preventing corrosion and failure at wire bond.

ESD Control

ESD control is vital for safety of the devices and for contamination control.

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