

VALTRON[®] TriAct[™]

DICING FLUIDS



Dicing Fluid for Semiconductor Wafer Dicing

VALTRON[®] TriAct[™] DF dicing fluid series are formulated with nonionic surfactants, disinfecting actives and other functional ingredients for application in the semiconductor wafer dicing process. They eliminate silicon dust particles effectively, disinfect production system pipelines, provide easy rinse with low and fast collapsing foam profile, help to stop microbial growth activity in concentrate or low dilution, prevents corrosion, and reduces and neutralizes static charges. In addition to cleaning, VALTRON[®] TriAct[™] DF series lubricate the dicing blades, which lowers friction and surface tension dramatically at dilution rate up to 1:4000, and acts as a coolant, which reduces heat that causes cracks in the silicon wafer.

UNIQUE FEATURES

- Effectively Eliminates Silicon Dust Build-Up
- Disinfects, Stops Microbial Growth and Prevents Sludge
- Prevents Galvanic Corrosion
- Extends Life of Dicing Blades
- Lubricates and Acts as a Coolant, Reducing Friction and Heat
- Low Foaming
- Neutralizes Static Charges

APPLICATION

VALTRON[®] TriAct[™] DF dicing fluids are effective in most dispensing systems. The dicing fluids are supplied in a liquid concentrate for dilution with deionized water at 1:2000 to 1:4000, but may vary depending upon the type and quantity of contamination being removed.

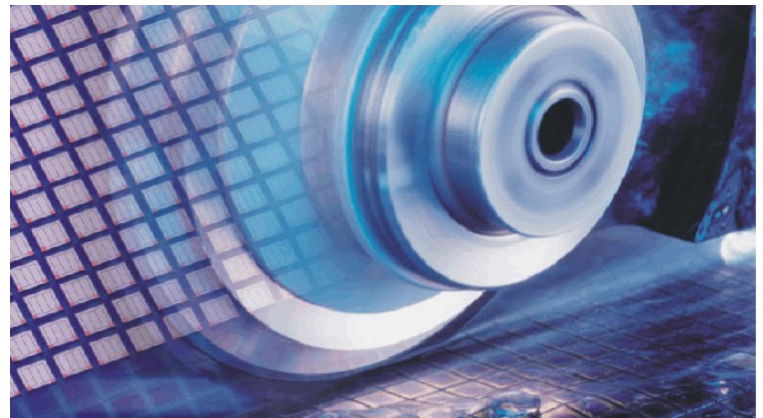
For Disinfection:

For the first time use (to eliminate existing microbial growth):
1:20 to 1:40 dilution.

For routine use: 1:2000 to 1:4000

PACKAGING

VALTRON[®] TriAct[™] DF159 dicing fluid is available in 1 gallon pails and 5 gallon pails.




TYPICAL PHYSICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Mild
Specific Gravity 60°F (15.6°C)	1.0 ± 0.01
pH @ 1:3000	7.0 ± 1.0
Surface Tension (100% / dilution)	31.5 / ≤ 50.0 dynes/cm
Cloud Point @ dilution	none up to 100°C
Ross-Miles Foam Test (height)	Initial: 35 mm, 2.5 mins: 0 mm

VALTRON® TriAct™ Dicing Fluids Introduction Summary Table

Product	Dilution	Key actives	Performance Features	Surface Tension: dyne/cm		pH		Ross-Miles Foam height: cm at minute of 0/1/2/3/4/5
		conc.	diluted	conc.	diluted	conc.	diluted	at dilution
DF268	1:2000	1.0 x	Silicon particle removal	31.5	39.9	7.0	7.1	2.0 / 2.0 / 2.0 / 1.6 / 1.5 / 1.5
DF269	1:3000	1.5 x	Silicon particle removal	30.0	47.8	4.1	6.7	0.5 / 0.1 / 0.0 / 0.0 / 0.0 / 0.0
DF270	1:4000	2.0 x	Silicon particle removal	31.1	50.0	4.1	6.6	0.5 / 0.1 / 0.0 / 0.0 / 0.0 / 0.0
DF280	1:2000	1.0 x	Silicon particle removal & disinfecting	31.5	41.3	3.7	6.2	2.0 / 0.5 / 0.0 / 0.0 / 0.0 / 0.0
DF281	1:3000	1.5 x	Silicon particle removal & disinfecting	31.1	49.3	3.9	6.2	1.0 / 0.5 / 0.4 / 0.4 / 0.3 / 0.0
DF282	1:4000	2.0 x	Silicon particle removal & disinfecting	31.4	49.8	4.1	6.5	1.0 / 0.5 / 0.4 / 0.4 / 0.3 / 0.1

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