



Water-Soluble Additive

StayClean-R

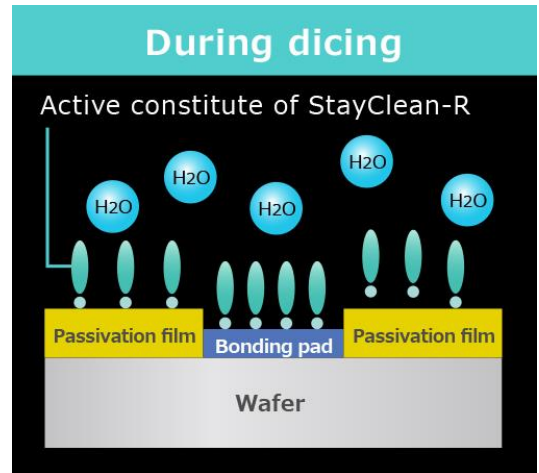
Conserving Water While Preventing Corrosion

Prevents Corrosion by DI water

The active component in StayClean-R continuously attaches itself to the surface of the metallic layer (e.g. bonding pads), reducing incidences of corrosion-causing contact between the DI water and the metallic layer.

Can Be Used in Combination with a DI Water Recycling Unit

The molecular size of the active component in StayClean-R is smaller and better optimized for ion-exchange resin. It also enables ion-exchange and ion-removal, which is necessary for producing DI water. Thus, it conserves water while preventing corrosion, and it is also compatible with the DWR series



Reduced Bonding Pad Defects

StayClean-R exhibits a high corrosion prevention ability, even when diluted up to a maximum of 1:10,000, preventing corrosion during lengthy-processing at a low cost. StayClean-R also excels in cleaning performance, with no concerns for residue on the wafer.

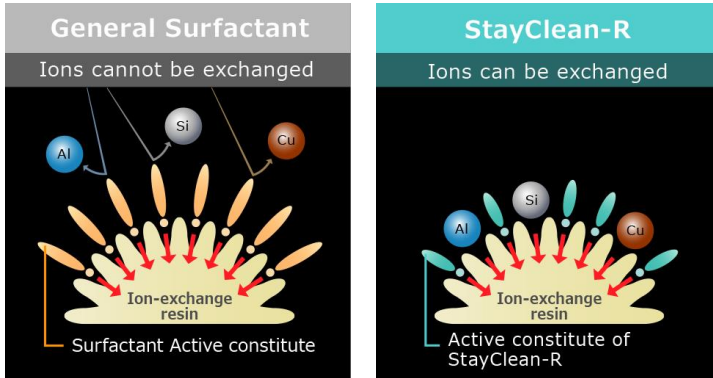
Corrosion Prevention

	DI water	DI water + StayClean-R
Processing	<p style="text-align: center;">Corrosion</p>	<p style="text-align: center;">No corrosion</p>



Optimized for Ion-Exchange Resin

- 1) Adjust the the molecular size of the active constitute in StayClean-R
- 2) Ions Can be exchanged
Like other molecules , The active constitute of StayClean-R is normally adsorbed to the ion exchange resin



StayClean-R Specification

StayClean-R		
Solution appearance	-	Transparent colorless and light yellow liquid
Main ingredient	-	Water-soluble polymer
pH(undiluted)	pH	5.1
Density (15 degrees C)	g/cm ³	1
Residue/decomposition (when diluted 1000 times)	mg/L	COD 21(JIS K0102-17) BOD 7.2(JIS K0102-21)
Recommended dilution	times	1,000 - 10,000(0.1~0.01 %)

StayClean Injector

Power supply, voltage	V	AC90 - 230 Single phase 50/60 Hz
Supply water temperature	deg C	20 - 25
Supply water pressure	Mpa	0.2 - 0.5
Process flow rate	L/min	2 - 20
Additive injection rate	%	0.1 - 0.01 (1,000 - 100 ppm)
Machine dimensions (WxDxH)	mm	Injector 200 x 300 x 500 excluding projections Bottle stocker 357 x 392 x 440 excluding projections
Machine weight	kg	Injector Approximately 22 (When dry) Bottle stocker Approximately 10 (When dry)

Cautions before using StayClean-R

- Make sure to read the MSDS before using StayClean-R because it describes detailed care regarding its use.
- Do not use StayClean-R for any unintended use.

Cautions regarding the use of StayClean-R

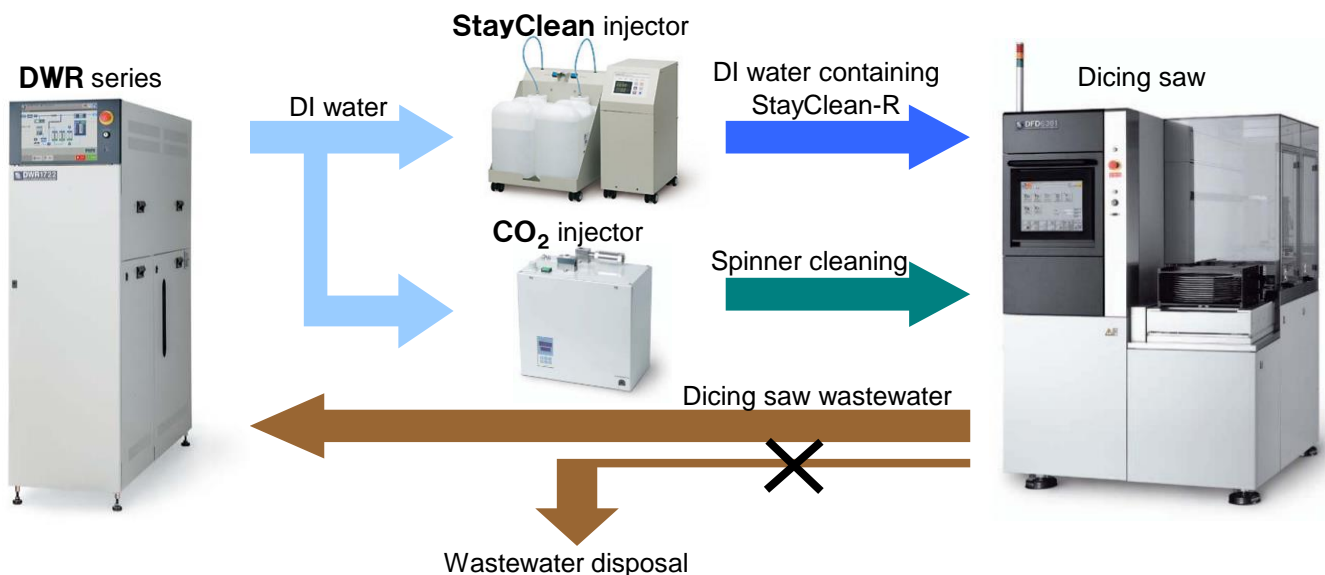
- Take care not to touch your eyes or skin, wear appropriate protective equipment such as gloves and glasses when handling it.
- Avoid using it in conjunction with other chemical agents (in particular strong acids or strong alkalines).

Cautions regarding StayClean-R storage

- Avoid exposure to direct sunlight and store in a cool dark place. Do not place it in a freezer.
- Seal the container properly and then store it.
- With the container still sealed, the warranty period is one year from the date of manufacture.

Recommended System Configuration

Compared to existing corrosion inhibitors, the environmental load of StayClean-R is very low and it is able to suppress drainage treatment costs. Furthermore, using StayClean-R in combination with DWR enables zero-drainage operations.



Only the water is circulated in this system, without any StayClean-R components inside the wastewater.