

Comparison of Tin stripper (EZ-5050 vs. SnST-550A)



Operating conditions

EZ-5050 Tin stripper (Made in USA)

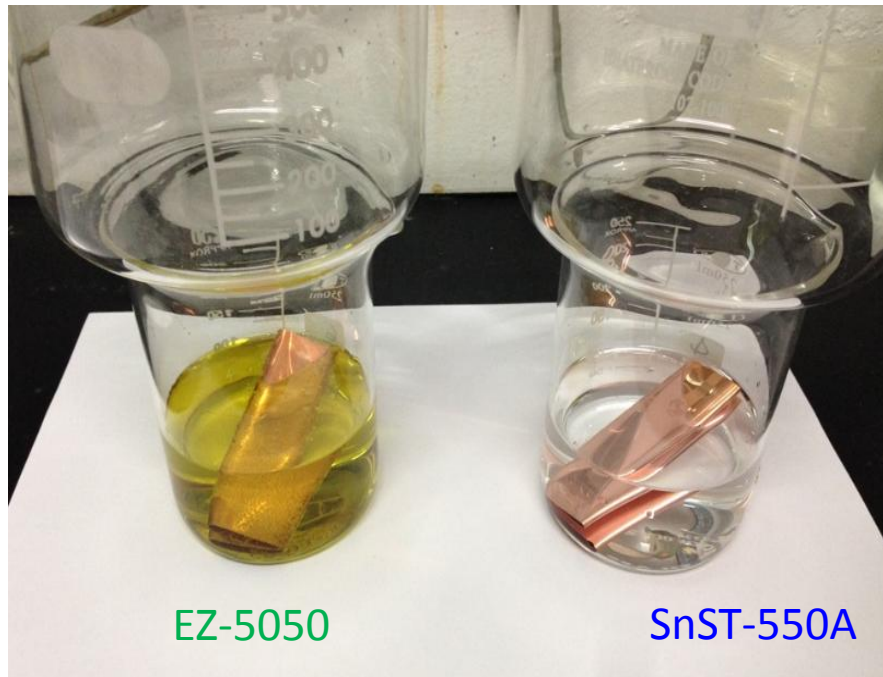
Parameter	Range	Optimal
EZ-5050	---	Ready to use

SnST-550A Tin stripper (Made in Taiwan) (The invention patents of Taiwan, USA, and China are submitted.)

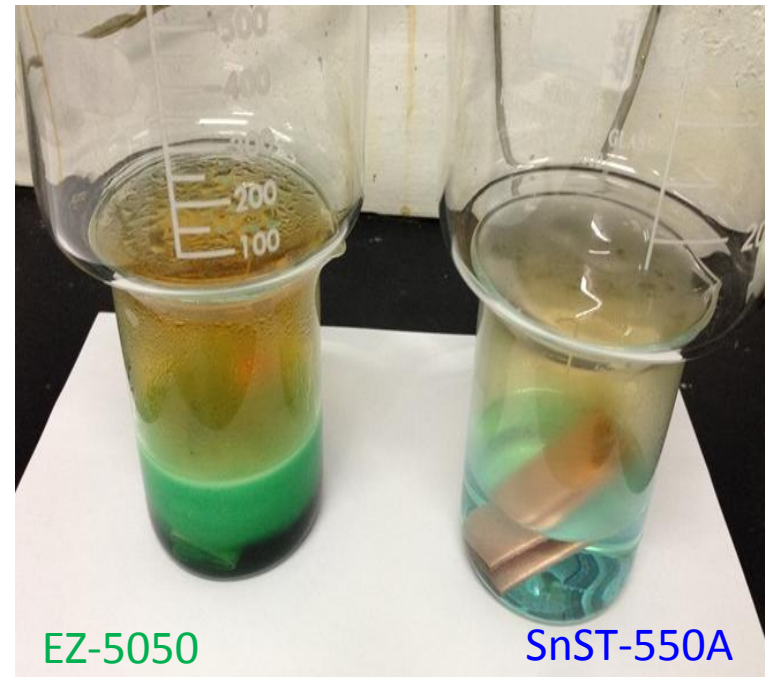
Parameter	Range	Optimal
68% HNO ₃	200-400 ml/L	250 ml/L
SnST-550A Tin stripper	200-400 ml/L	250 ml/L
H ₂ O	400-600 ml/L	500 ml/L

Comparison of Cu etching rate

Comparing two kinds of Tin strippers (EZ-5050 vs. SnST-550A) to etch copper substrate. We expect to the Tin stripper has a **lower copper etching rate** and a **little amount NOx gas**.



25 min later



Put the 17.4 g copper into the 100 ml of Tin stripper at 30°C, respectively.

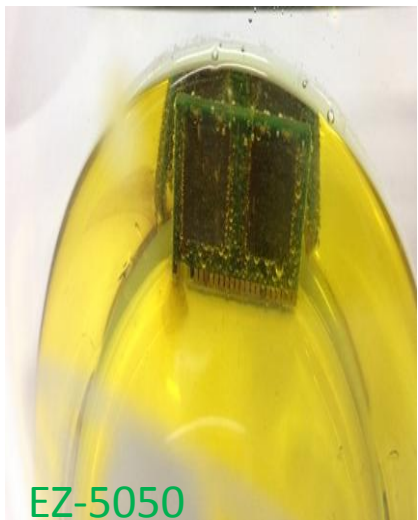
Copper loss rate

$$\text{EZ-5050} : (17.4 - 7.29) / 17.4 = 58.1\%$$

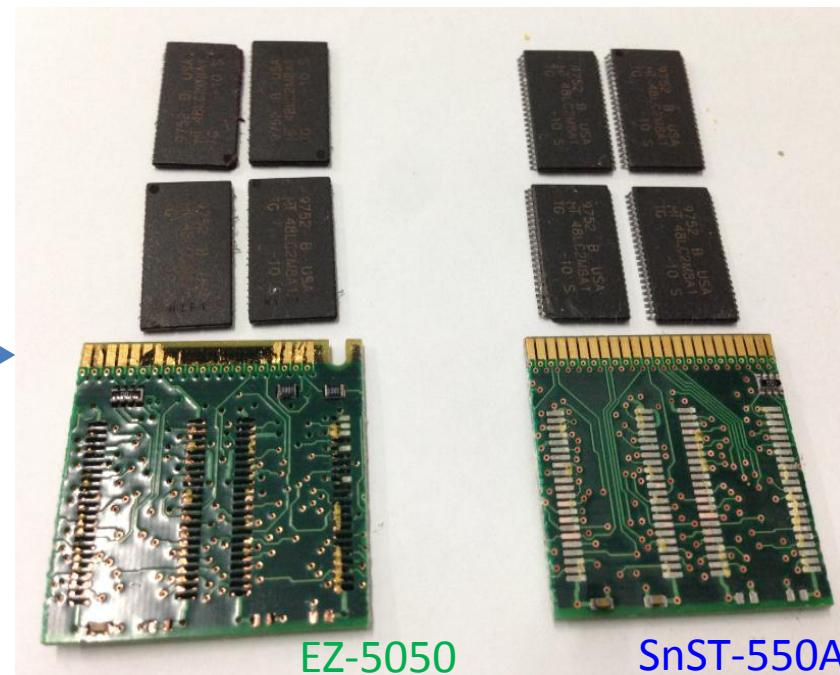
$$\text{SnST-550A} : (17.4 - 15.33) / 17.4 = 11.9\%$$

RAM module test

Comparing two kinds of Tin strippers to de-soldering the RAM module .
We expect to the Tin stripper has **no damaged the gold plating layer and IC fillets.**



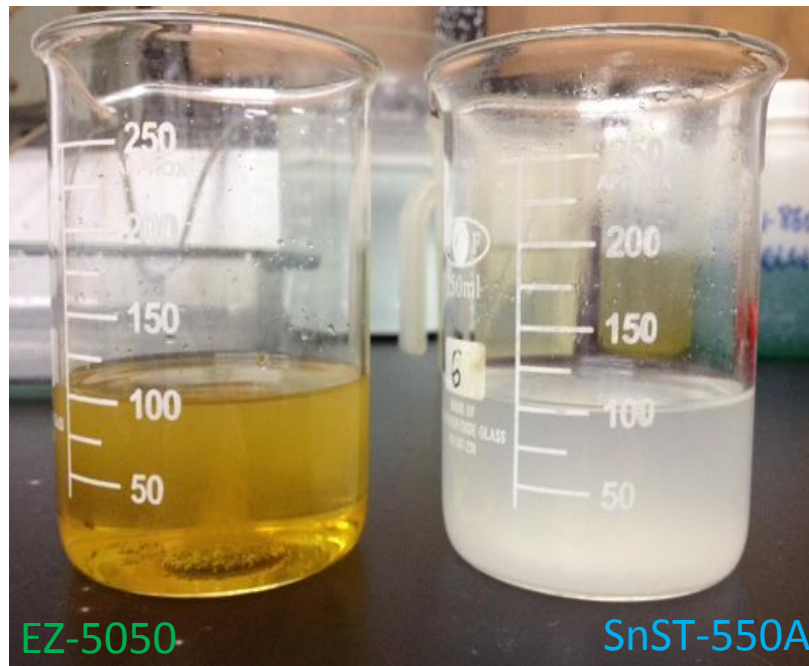
30 min
later
30°C



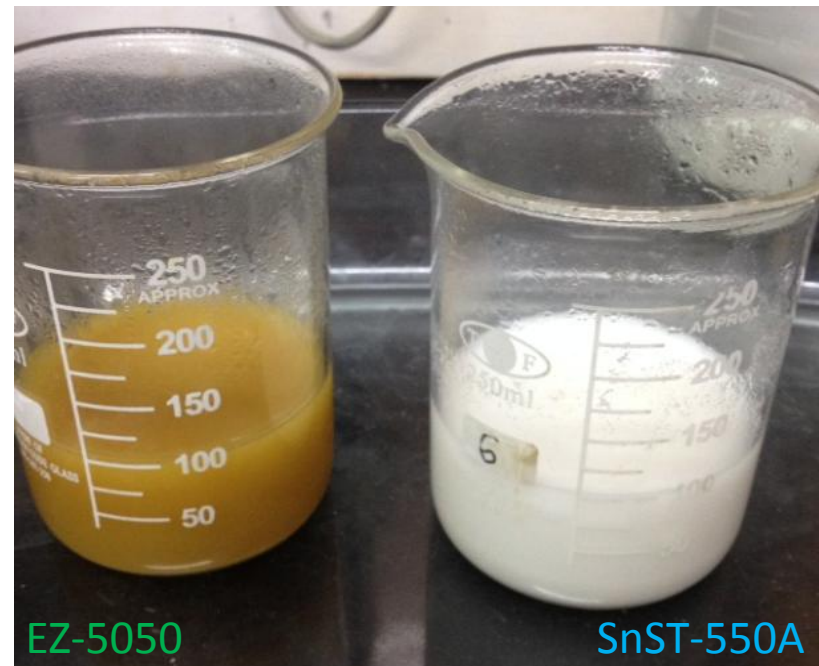
Put the RAM module into the 100 ml of Tin stripper, respectively.

EZ-5050 : Gold layer loss >50% ,
and IC fillets were damaged.
SnST-550A : Gold layer without any loss ,
and IC fillets had no damaged.

Tin saturation test



100 min later



Put the Tin solder balls into the 100 ml of Tin stripper, respectively.



Tin solder ball

EZ-5050 : Tin saturation is 160 g/L
SnST-550A : Tin saturation is 180 g/L