



MEC REMOVER S-1728

DESCRIPTION

MEC Remover S-1728 is a single-step, non-fluor, non-peroxide, nitric acid based tin/lead solderstripper for use in spray application.

FEATURES

1. Non-fluor.
2. Non-peroxide.
3. No danger for meazling.
4. Fast stripping rate.
5. Very low copper attack.
6. No-sludge, nor precipitation.
7. Easy for waste treatment.
8. High metal holding capacity.

PHYSICAL PROPERTIES

Appearance	: yellow to brown liquid
Specific gravity(20°C)	: 1.20 ± 0.01

USAGE

1. Use as supplied.
2. Operate at 25 to 35°C.
3. Spray pressure more than 1.0 bar.

EQUIPMENT

Most known materials used in equipment can be used :

- stainless steel 304, 306
- titanium
- PVC, PP, PE or fluorinated rubber.

A cooling coil is recommended to maintain the operating temperature below 40°C.

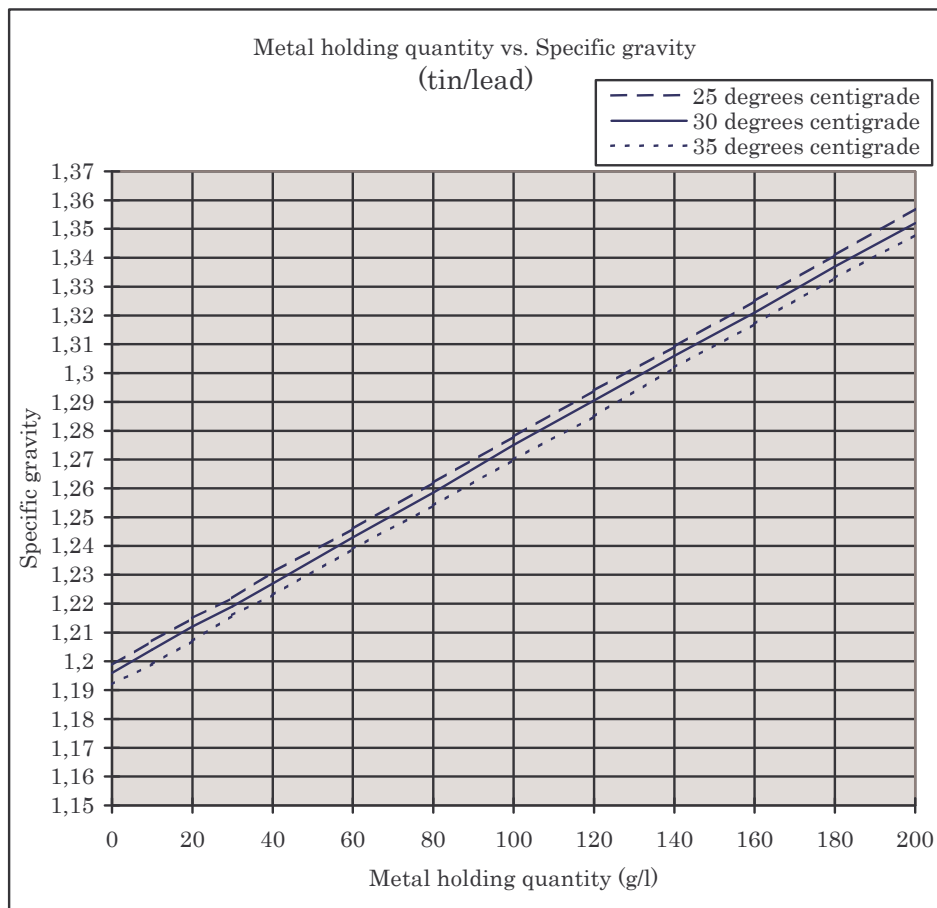
BATH CONTROL

1. Control over density can easily be done with the replenishment point set at a certain specific gravity depending on the machine set-up.
2. In case of manual replenishment it is recommended to replace 80% of the used solution by fresh when the density is at 1.33 kg/l.

In any of the above cases there will be no sludge. A density controller can be used to control the bath in an automatic bleed and feed mode.

Tin and lead can be measured best by AA.

3. During start-up with fresh solution the etching or dilution of copper into the bath should be avoided. Dissolve first about 20g/l Sn or Sn/Pb into the bath. This action will allow you to minimize etching of copper during working conditions. (see fig.4)



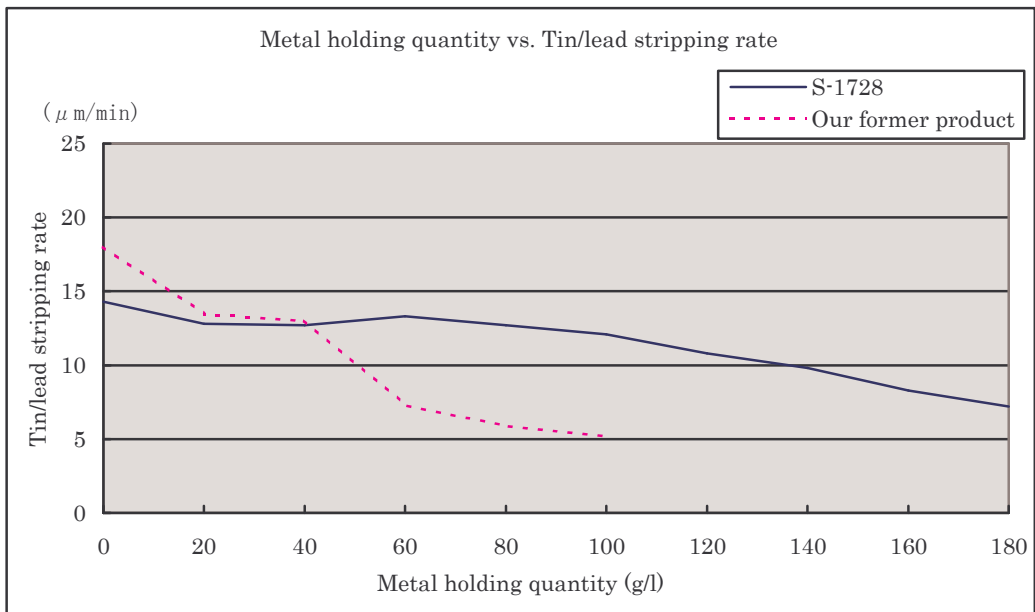
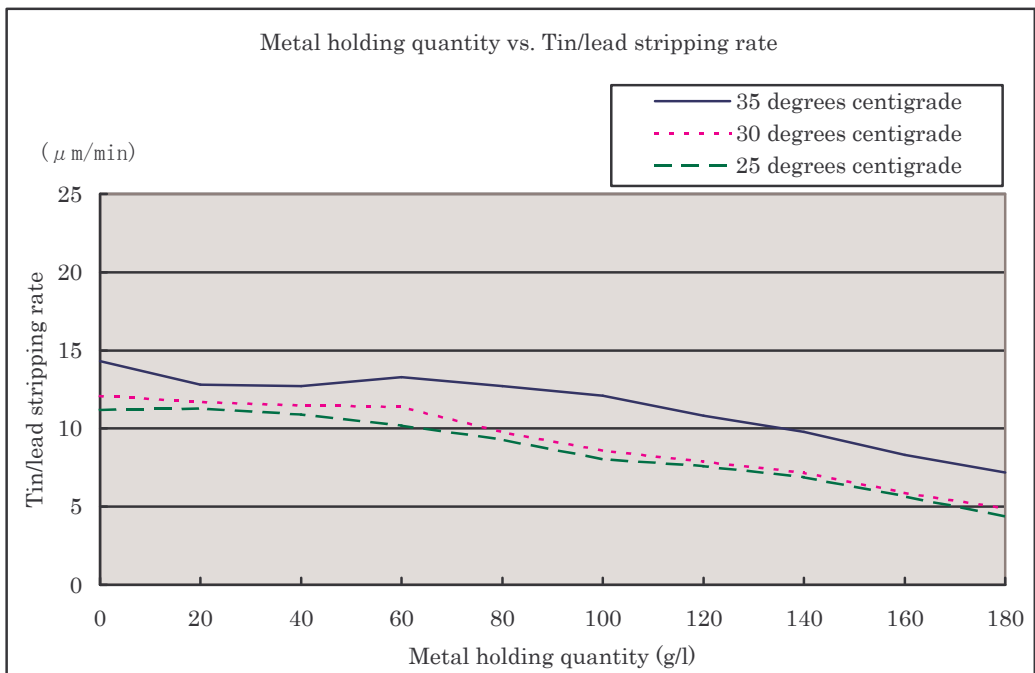


Fig. 2 / Fig. 3 : Measured by board of solder plated on copper (solder thickness about $5\mu\text{m}$).



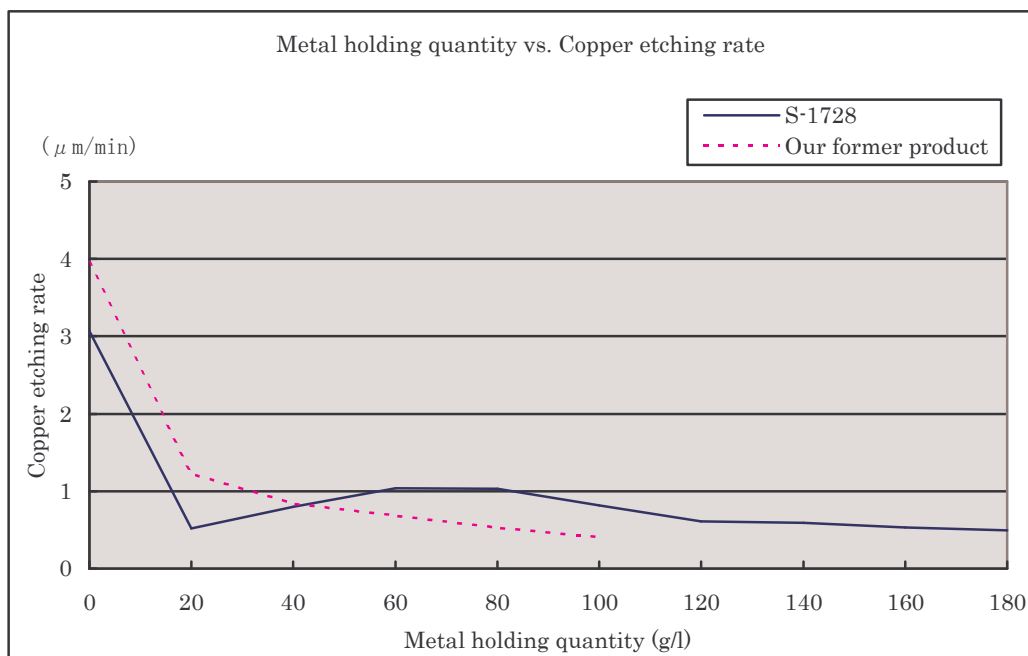


Fig. 4 : Measured by copper laminated board (copper foil thickness 18 μm).

HANDLING

It is recommended to install a cooling coil, not because the stripping reaction is exothermic, but to maintain the operating temperature below 40°C as above this temperature NO_x fumes can be generated.

WASTE TREATMENT PROCEDURE (of a 50 times diluted concentration)

1. To the volume to be treated add ca 2% v/v of a ca 40% FeCl₃ solution.
2. Adjust to pH 8-9 by adding Ca(OH)₂ 10% solution.
3. Add 0.1 % v/v polymer coagulator.
4. Agitate the solution for ca. 10 min.
5. Let the solution flocculate and settle.
6. Separate the sludge by filtration.

Metal content in processed spent solution.

RESULT :

	(ppm weight)			
	Sn	Pb	Cu	Fe
Before treatment	2284	1189	179	---
After treatment	< 0.1	< 0.1	< 0.1	< 0.1

SAFETY PRECAUTIONS

1. MEC REMOVER S-1728 is acidic. Avoid skin and eyes contact.
When handling, wear protective clothing and goggles. In case of skin contact, rinse immediately with copious amounts of water.
In case of eye contact, rinse with large amounts of water and obtain medical assistance.
2. Store in cool and dark area, where direct sunlight is not present.
3. Provide adequate ventilation in the storage area.

PACKAGING

MEC REMOVER is available in 25 L, 200 L non-returnable PE drums and 1000 L container.

WARRANTY AND DISCLAIMER

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