
Dust!!!

Posted by Special Ed - 2008/03/12 16:26

Firstly hello everybody to this new forum.

My subject is 'dust' and anyone who prints circuit boards knows how much dust is an enemy to the printer!

Ok, what we do in my factory is close the windows and doors then turn the humidity control on.(air & water)

Then roll the base with a dust removal roller then with a wet rag wipe around the machine and base to get rid of all possible dust.

Is there anything I am not doing because I still have dust issues???

Re:Dust!!!

Posted by fespamike - 2008/04/18 07:05

evening, i would recommend that you look into a static eliminator system, great for erasing static of course but also they have devices to control dust;

meech are on of the best;

<http://www.meech.com/ApplicationNote.aspx?id=626&divid=1>

Re:Dust!!!

Posted by MICHEL CAZA - 2008/04/18 22:17

Dust is of course huge problem and not only in PCB printing !

As mentioned by the above short answer, static electricity is the major cause of the presence of dusts in the air of your plant.

1- if possible, you must work in fully conditioned air at 20-22°C with an hygrometric percentage of 75 to 85%.

2 -If possible, try to have a higher pressure of air inside of your plant in a manner the dust remain "glued" on the walls if I can say so !

3- on the press, you need 3 anti-static bars = one after the feeder (if some) or after hand feeding. One other at the level of the squeegee/flood bar and the last one at the way out of the press (before the entrance in the drying or curing unit).

You must also have a tool to measure the charge of static electricity, to send orders to the bars, through computer may be, in a manner to send the exact opposite current to "neutralise" the charge.

4- There are antistatic products that can be added in the inks, conductive or protective. Take care of the amount as they often contains silicons.

5 - Some manufacturers of squeegee blades - FIMOR for example - supply also blades that are partially conductive and can also eliminate some of this static electricity.

6 - Your press and dryer must be in contact with the earth and not isolated.... Evident = the remanent static electricity must be "driven out", not kept inside.

7 - Before printing the circuit, if possible, to wipe or to roll it between a system with rolls "in love with dust" and an anti-static bar can also help a lot..

If you do some or best, all of those actions, I don't think you will have any more problem with static-electricity.... Then dusts !

MC

Re:Dust!!!

Posted by Claudia - 2008/06/18 03:38

ExceleInt information. I have stumbled this post for other to find.

Anja from B&B in Stratford-Upon-Avon
