Date: Tue, 05 Sep 2006 09:08:36 -0600
From: "kflippo" <kflippo@lanl.gov> Block Address
Subject: RE: CVD diamond detectors
To: "'Dr. Dipangkar Dutta'" <dd285@msstate.edu>

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Dr. Dutta,

Well, my experience with ADS/DDK has been exemplary, with that said, I must
tell you that I only briefly discussed with them the use of their diamond as
a detector substrate, but I believe that they certainly have the
capabilities to make any sample you desire.

I have used them about a dozen times for making 10 micron thick CVD films
ranging from opaque (more SP2 bonds) to very transparent (more SP3) for use
as targets in laser plasma experiments. They also produced a 1 micron free
standing diaphragm film 2mm in radius. They are able to cut small ~mm sized
features very well into the 10 micron CVD, and have machined very nice
targets for me. I am extremely happy with the interactions, and their
willingness to get the product right. They also have a fast turn around
time on orders.

Overall I would definitely recommend them as a source for your CVD films.

I also know of a group at GSI who has been experimenting with a diamond ion
detector, and a colleague gave me the name of another person making CVD for
electronics at the MIT Lincoln lab. Either of whom may be of additional
help on detector experiences (though they did not use ADS).

Markus Roth, GSI M.Roth@gsi.de
Jon Twichell, MIT

Hope this helps.

Kirk

-----Original Message-----
From: Dr. Dipangkar Dutta [mailto:dd285@msstate.edu]
Sent: Friday, September 01, 2006 2:31 PM
To: kflippo@lanl.gov
Subject: CVD diamond detectors

Dear Dr. Flippo,
We were wondering if you could provide us some information about your
experience with Advanced Diamond Soultions. We are in the processes
of investigating the feasibility of building a diamond micro-stip
detector to be used for tracking in
a high radiation environment at JLab. We have contacted ADS about
their CVD diamonds and they had mentioned you as one of their
customers. We would really appreciate it if you could give us some
feedback on ADS and your experience with their products and CVD
diamond detectors in general.
Thank you very much for your time
Regards
Dipangkar Dutta

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