



PROPERTIES OF LAMINATED B3 DOSIMETERS

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Risø B3 dosimeters were laminated by standard office lamination technique in order to protect them against environmental humidity influence. The properties of this modified dosimeter were determined and compared with the properties of the un-modified thin-film dosimeter. Irradiations were carried out at a 10 MeV electron accelerator and at a cobalt-60 gamma cell. Optimum post irradiation heating conditions were determined.

It was possible to irradiate the dosimeter immersed in water, but the lamination did not provide an effective humidity barrier, and some influence of different humidities during irradiation on the response of the laminated dosimeter was found.

The response of the laminated dosimeter was found to be as stable in time after irradiation as the un-modified dosimeter.