

ISSUE 1	DATE FEBRUARY 1994	AWE CARDIFF HEALTH PHYSICS PROCESS INSTRUCTION	PROCESS INSTRUCTION NUMBER 15
SMEAR SAMPLES PROJECT Be			PAGE 1 OF 1

SMEARING FOR BERYLLIUM CONTAMINATION IS ONLY TO BE PERFORMED
BY AUTHORISED HEALTH PHYSICS PERSONNEL

SMEAR PAPER

Whatman 542 Hardened Ashless paper 90mm diameter, catalogue, No 1542090. The paper is cut in half and both halves used. When cut the individual portions are placed in a self seal bag.

USAGE

When the smear papers are used the envelope must be marked with the smear sheet (H/P AWE(C) Form No 17/Be) number and the individual smear number, eg 234/3 would indicate smear sheet No 234 and smear No 3.

When taking smears it is important that the surveyor has clean hands so as not to cross contaminate the smear papers. If the hands become dirty then washing must be done prior to further smearing.

The paper is removed from the bag and wiped with a smooth even action across the surface being smeared. An area of 1000cm² (approx' 1ft²) is to be covered by the smear.

Allowable levels are:

Controlled areas = <10 ug/1000cm²
Non Controlled area = <1 ug/1000cm²

For items leaving controlled areas

- a. surface area >1000cm² = <1 ug/1000cm²
- b. surface area <1000cm² = <1 ug total smear reading

The paper is then folded and placed in the envelope and the envelope sealed. The location of the smear is then enter alongside the corresponding smear number on the smear sheet.

Once the survey is complete, the smear sheet is folded around the envelopes and secured with an elastic band.

The smears are then passed to the Health Physics Lab' for analysis as per H/P Process Instruction No 17.

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