



GROUP REPORT

Round 35

ASBESTOS IN SOILS SCHEME (AISS)

March 2025



This report is available to view on our website: [AISS Group Reports](#)

ROUND 35 SAMPLE DETAILS

BACKGROUND

This report covers Round 35 of the Asbestos in Soils Scheme (AISS). Round 35 was open to laboratories worldwide. Laboratory participation was as follows: 21 UK & 53 Non-UK with 72 labs submitting results.

SAMPLES

Two samples were circulated as follows:

Sample S069 – This sample contained chrysotile free fibre asbestos in a topsoil, compost, sand, aggregate, wood flour and clay matrix.

Sample S070 – This sample contained 0.06% free fibre crocidolite asbestos in a topsoil, compost, sand, aggregate and wood flour matrix.

SCREENING & VALIDATOR INFORMATION

Both samples were prepared for circulation following our normal internal screening process of samples with representative subsamples scanned using stereo-zoom microscopy to assess homogeneity and suitability. Approximately 10% of the total number of samples were validated by 3 independent laboratories.

INFORMATION SUBMITTED BY LABORATORIES

72 laboratories submitted results for AISS Round 35. Laboratories used the PT online data entry system to submit their results for this round. Results were submitted as asbestos type(s) present and for the Quantitative option, the % asbestos in ACM's, as loose fibres and the total % asbestos.

AISS QUALITATIVE RESULTS

Sample 1 (S069)

68 laboratories correctly reported chrysotile.
1 laboratories reported crocidolite.
1 laboratory reported amosite & anthophyllite
2 laboratories reported no asbestos

Sample 2 (S070)

71 laboratories correctly reported crocidolite.
1 laboratory reported amosite.

AISS QUANTITATIVE RESULTS

The median of quantitative results submitted was 0.072. For the purposes of the z score we are using 40% of the median – 0.0288.

50 laboratories submitted quantitative results for S070;

- 47 (94%) laboratories achieved a z-score of $< \pm 2$, Satisfactory
- 1 (2%) laboratory achieved a z-score of between $\pm 2 - \pm 3$, Questionable
- 2 (4%) laboratories achieved a z-score of $> \pm 3$, Unsatisfactory





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1. Type Of Errors Obtained

Chart 1 illustrates the errors made by participating laboratories.

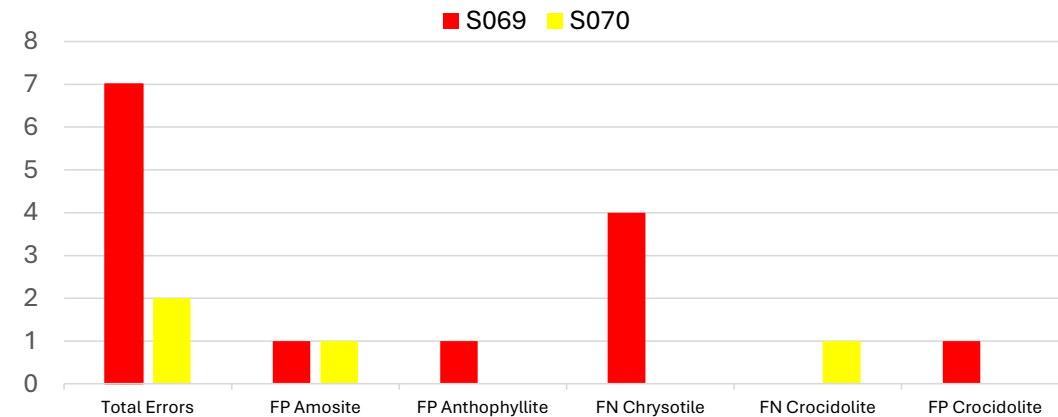
7 errors were made on sample 1 (S069) with:

- 1 laboratory falsely reporting crocidolite (false positive crocidolite & false negative chrysotile).
- 1 laboratory falsely reporting amosite & anthophyllite (false positive amosite, false positive anthophyllite & false negative chrysotile)
- 2 laboratories reporting no asbestos (2 x false negative chrysotile)

2 errors were made on sample 2 (S070) with:

- 1 laboratory falsely reporting amosite (false positive amosite & false negative crocidolite)

Chart 1 - AISS Round 35 Errors



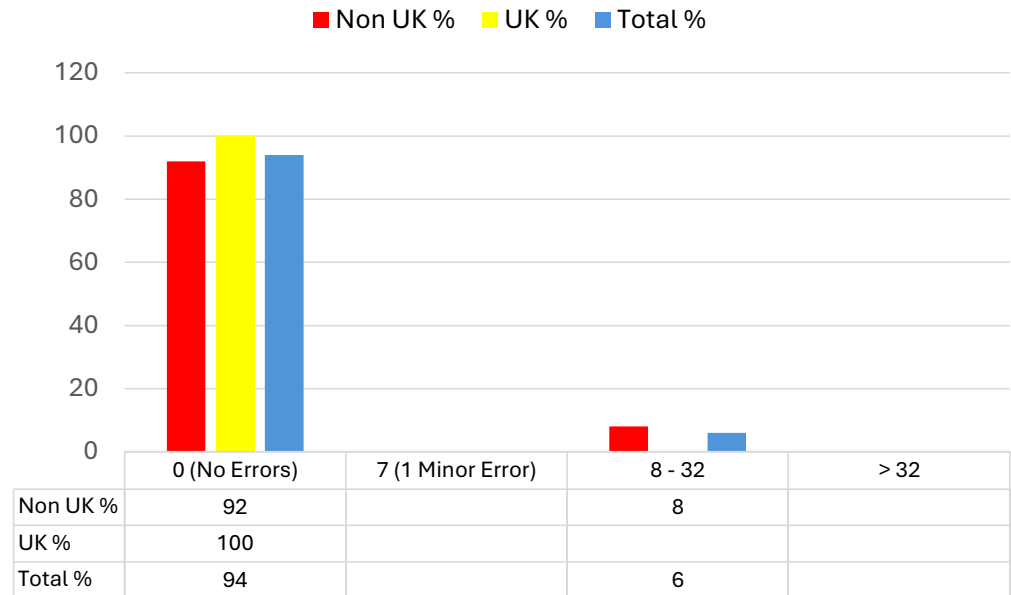
False Negative = Component has been missed. False Positive = Component has been incorrectly identified as present

2. Errors for UK & Non-UK Laboratories

Chart 2 illustrates the distribution of scores for all participating laboratories.

68 (94%) laboratories obtained a score of zero in this round, indicating that these laboratories had not made any errors. The distribution of scores obtained by UK (United Kingdom) and Non-UK laboratories is also compared; 21 (100%) UK laboratories and 47 (92%) Non-UK laboratories obtained a score of zero for the round.

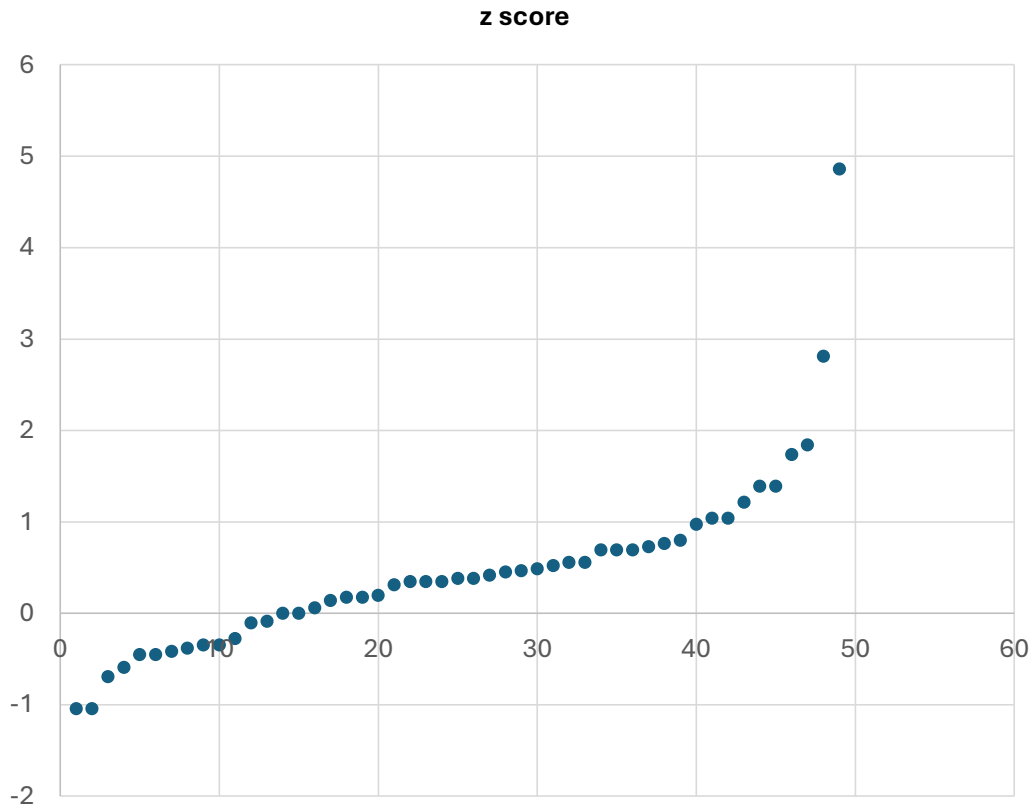
Chart 2 - Distribution & Comparison of Errors AISS R35





3. Quantitative Results - z scores

Chart 3 - scatter graph of z scores (1 z score of 13.51 removed as an outlier) for the 50 laboratories who submitted a quantification result for sample 2 (S070).



4. Quantitative Results

Chart 4 illustrates of the xx laboratories who submitted a quantification result for sample 2 (S070):

- 47 laboratories (94%) achieved a satisfactory result i.e. a z score of $\leq \pm 2$.
- 1 laboratory (2%) achieved a questionable result with a z score of between ± 2 and ± 3 .
- 2 laboratories (4%) achieved an unsatisfactory result with a z score of $> \pm 3$.

