

AAPA National Proficiency Testing Round 2019/20

Instruction sheet for test stream 2: Binder Recovery and Testing

Description:

Samples of asphalt mix will be sent to the participating laboratories for extraction of binder and characterisation testing. An additional tin with a bitumen sample will be sent as well for comparative viscosity testing.

Test methods:

- Binder extraction AGPT/T191, ASTM D5404, or ASTM D1856
- Viscosity of binder using Dynamic Shear Rheometer (DSR) AGPT/T192
- Capillary Viscosity at AS/NZS 2341.2

Where the laboratory does not hold NATA accreditation for these test methods, results for an equivalent local test method may be reported, but please note that the statistical analysis may not be valid for such results.

To report the results, access the webform by clicking:

<http://www.123formbuilder.com/form-5236467/s2-binder-tests>

Please note that you will need the **Laboratory ID Code**, which has been sent to you in a separate e-mail to complete the webform.

Submit results by 30 May2020

Procedure:

Loose asphalt mix samples will be sent to laboratories in containers. A separate 1 litre tin with a bitumen sample is provided as well. Each container has a unique sample number.

Tests on extracted binder

- Extract binder from loose mix in accordance with AGPT/T191, ASTM D5404, or ASTM D1856
- Determine viscosity of extracted binder using DSR AGPT/T192
- **Optional:** Determine viscosity at 60 °C of extracted binder using Capillary Viscometer AS/NZS 2341.2

Tests on bitumen sample

- Determine viscosity of bitumen sample using DSR AGPT/T192
- Determine Capillary Viscosity at 60 °C of bitumen sample in accordance with AS/NZS 2341.2

Reporting:

Use webform to report:

Extracted binder:

- Average of duplicate complex viscosity results (η^*)
- Optional: Capillary viscosity at 60 °C

Bitumen sample:

- Average of duplicate complex viscosity results (η^*)
- Capillary viscosity at 60 °C