

QPL 11: BIODEGRADABLE ASPHALT SOLVENTS

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GENERAL

This evaluation procedure outlines the Department's approval process for biodegradable asphalt solvents used for extraction of bituminous mixes.

SPECIFICATIONS

- AASHTO T48 – Standard Method of Test for Flash Point of Asphalt Binder by Cleveland Open Cup
- AASHTO T164 – Standard Method of Test for Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA)

PROCEDURES

A completed Product Evaluation Form, Safety Data Sheets, product data information, and a 5-gallon sample of the product being tested must be submitted to the Division of Materials and Tests.

To be placed on the Department's Qualified Products List, a biodegradable solvent must meet the following requirements:

1. Flash point of 140° F or above.
2. Extract asphalt cement from a standard asphalt mix within 0.2% of the amount of asphalt used to construct the standard mix.
 - a) Using an amount of solvent not to exceed two gallons.
 - b) Using an amount of rinse water not to exceed two gallons.
- 3) Must be capable of being used by laboratory personnel using normal ventilation procedures without causing nausea.
- 4) Must rinse through filter without evidence of clumping or coagulation of the solvent.
- 5) A maximum specific gravity of 0.90 as measured with a hydrometer.