

**TECHNOLOGY DEPLOYED IN MATC**

# ASPHALT BINDER TEST (ABT)

Quickly predict the performance grade of your asphalt binder

## HOW IT WORKS

ABT utilizes air jets and a laser to predict the performance grade (PG) of various unaged asphalt binders. The ABT can be used in the field to quickly check that agencies and mix suppliers are getting the asphalt binder grades that were specified for highway construction paving projects. By using air jets instead of the needles found in traditional penetration tests, the ABT collects data on creep and recovery characteristics with a loading time of 20 seconds and a recovery time of 70 seconds. This test is compact and portable for potential field applications but does use compressed nitrogen and a temperature conditioning chamber, water bath, or oven capable of maintaining 25.0 +/- 0.1°C to operate.



Image Source: FHWA  
Asphalt Binder Test Device

**The ABT measures both the loading and recovery characteristics of a binder to quickly predict performance grade.**

## ABT FEATURES

Highly  
**VERSATILE**

Simple to  
**OPERATE**

**QUICK**  
preparation time

Tests at least  
**TWO REPLICATES**  
for each sample

Generates results  
for each sample in  
**<2 MINUTES**

Current evaluations of ABT in: Colorado, Maine, Northcentral Superpave Center, Pennsylvania, Utah