



**TECHNOLOGY DEPLOYED IN MATC** 

FHWA-HIF-21-049

## INDIRECT TENSILE ASPHALT CRACKING TEST (IDEAL-CT)

Determine the cracking potential of your asphalt mixtures

## **HOW IT WORKS**

The IDEAL-CT is an indirect tension test that determines the cracking potential of asphalt mixtures with a fracture mechanics-based parameter: Cracking Tolerance Index ( $CT_{Index}$ ). Asphalt mixture specimens are conditioned and fabricated to 150 mm in diameter and 62 mm in height, with 7.0±0.5 percent air voids, no notching/cutting necessary. The test is typically run at 25°C with a monotonic loading rate of 50 mm/minute of cross-headed displacement.

## The larger the $CT_{Index}$ value, the better the cracking resistance.



Image Source: FHWA Load frame performing IDEAL-CT



Current Performance Testing Program Evaluations of IDEAL-CT in: Texas, Oklahoma, Virginia, Kentucky, Minnesota, Maine, Vermont, National Center for Asphalt Technology (NCAT).

## Learn more at <a href="https://www.fhwa.dot.gov/MATC">https://www.fhwa.dot.gov/MATC</a>

\* These standards and specifications are not FHWA requirements.