

Australian/New Zealand Standard™

AS/NZS 2341.10:2015

Methods of testing bitumen and related roadmaking products

Method 10: Determination of the effect of heat and air on a moving film of bitumen (rolling thin film oven (RTFO) test)

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CH-025, Bitumen and Related Products for Roadmaking, to supersede AS/NZS 2341.10:1994.

The most significant changes are the addition of a procedure to determine the mass change of a sample after rolling thin film oven (RTFO) treatment and inclusion of a formula to calculate the percentage change in viscosity of a material after RTFO treatment.

METHOD

1 SCOPE

This Standard sets out a treatment of bituminous binders which is intended to simulate the conditions obtained when the binders are used to manufacture hot-mixed asphalt. The change in the binder properties prior to and after treatment as specified by this test method may be determined in several ways. This method determines the change in mass of the sample under test and in addition makes a treated residue available for further testing.

This method is applicable to bitumens used in the construction and maintenance of pavements (as specified in AS 2008) and polymer modified binders (PMBs) as specified in AGPT-T190.

1.1 SAFETY DISCLAIMER

WARNING: THE USE OF THIS STANDARD MAY INVOLVE HAZARDOUS MATERIALS, OPERATIONS AND EQUIPMENT. THIS STANDARD DOES NOT PURPORT TO ADDRESS ALL OF THE SAFETY PROBLEMS ASSOCIATED WITH ITS USE. IT IS THE RESPONSIBILITY OF THE USER OF THIS STANDARD TO ESTABLISH APPROPRIATE SAFETY AND HEALTH PRACTICES AND DETERMINE THE APPLICABILITY OF REGULATORY LIMITATIONS PRIOR TO USE.