

Australian Standard®

AS 2891.14.15:2018

Methods of sampling and testing asphalt

Method 14.15: Mean, standard deviation coefficient of variation and characteristic values

PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee CE-006, Asphalt and Sprayed Surfacing.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

METHOD

1 SCOPE

This Standard sets out the method for calculating the mean, the unbiased standard deviation, coefficient of variation and characteristic values of a set of test results.

These values are most commonly specified for density ratio and per cent air voids determined in accordance with AS/NZS 2891.14.5 but may also be applied to other test results for asphalt, other construction materials and processes.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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|------------|---|
| 1289 | Methods of testing soils for engineering purposes |
| 1289.1.4.1 | Method 1.4.1: Sampling and preparation of soils—Selection of sampling or test sites—Random number method |
| 1289.1.4.2 | Method 1.4.2: Sampling and preparation of soils—Selection of sampling or test sites—Stratified random number method |

AS/NZS

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|-----------|---|
| 2891 | Methods of sampling and testing asphalt |
| 2891.14.5 | Method 14.5: Field density tests—Density ratio and percent air voids of compacted asphalt |

Main Roads Western Australia Engineering Road Note 8, Statistically based quality control for density in road construction.