

# Vialit Cohesion Pendulum

CS-VCP

EN 13588, EN 13808, EN 15322



The Vialit pendulum test assesses the degree of adhesion between an aggregate and a bitumen when subjected to a sudden impact



## INTRODUCTION

Vialit Cohesion Pendulum by Cox & Sons CS-VCP is a testing device to analyze the cohesion of bitumen in road construction. The cohesion is one of the measures of the performance of a bituminous binder. It is important to use binders which have a sufficient level of cohesion according to the level of traffic to be supported.

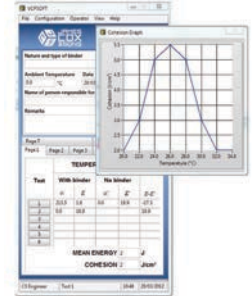
Cohesion has originally been developed for surface dressing however it can be used for any type of binder (pure, modified or fluxed) which is to be used in different types of road applications. Knowledge of cohesion enables the choice of binder type for given traffic and site conditions.

## KEY FEATURES

- Automatic safety safety catch avoiding pendulum to crash after test impact
- Incremental angle sensor in combination with a digital display resolution of 0,1°
- 36 cube and cube holder combinations, which allows an economic production of test samples (included)
- Efficient safety system in compliance with EC - machinery directive 2006/42/EC which allows comfortable handling with maximum operational reliability
- Module with built-in RS 232-port (allows the metering of test value via computer, retrofittable by user)
- Software available for full automation of test

## SOFTWARE

- User friendly, intuitive and reliable Windows® software developed with National Instruments LabVIEW™
- Results are taken for the binder under test, across the pre-determined temperature range and displayed in real time.
- Results are stored in a single Microsoft® Excel® compatible csv file.
- Previously stored data can be up-loaded to allow changes/additions to the tests already carried out on the binder under test.
- On-screen chart shows the cohesion vs. temperature curve which updates in real time as new measurements are taken.
- Translation of the software is available into most languages.
- Retrofittable on previously supplied pendulums



## SPECIFICATIONS

Angle Measurement Range	360°
Angle Measurement Resolution	0.1°
Pendulum Mass g (lb)	1925 ± 95 (4.244 ± 0.209)
Pendulum Parked Position	(4 ± 1)° from the vertical
Radius at Point of Impact mm (inch)	500 ± 1 (19.7 ± 0.04)
Distance from Pendulum Centre of Gravity to Shaft mm (inch)	295 ± 2 (11.6 ± 0.08)
Ambient Temperature Range °C (°F)	18 to 28 (64.4 to 82.4)
Electrical Supply	1 Ph 100-240 V 50/60 Hz
Dimensions (WxDxH) mm (inch)	1200 x 600 x 1320 (48 x 24 x 52)
Estimated space required mm (inch)	1200 x 600 x 1320 (48 x 24 x 52) on bench top
Estimated Weight kg (lb)	150 (330)
PC	Required for software- please inquire

## ACCESSORIES

CS-VCP-CUB

Additional pair of cubes and cube holders

CS-VCP-SOFT

Software to allow PC analysis of results. Laptop included with the software.



Cox & Sons is the only equipment supplier to provide 5 year warranty\* as standard on all new equipment purchases. We can do this because we believe in our products and the service level we deliver. As an established equipment supplier we know the rigors of asphalt testing over time. Our equipment is designed and built to stand this test.

\* For US & Canada based end users only