

Methods of test for Adhesives —

Part C15: Determination of bond strength in compressive shear

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Foreword

This Part of this British Standard has been prepared under the direction of the Adhesives Standards Policy Committee.

This edition introduces technical changes but it does not reflect a full review or revision of the standard, which will be undertaken in due course.

This edition differs from the previous edition in that the scope has been amended to emphasize that the test is not intended to be used for obtaining numerical design data. The references have been brought up-to-date, and clause 5 has been aligned with requirements in the other parts of the text.

The determination of bond strength in compressive shear is an alternative to its determination in longitudinal shear as described in Part C5 of this standard. It is particularly useful for tests on brittle adhesives or with brittle adherends for which the longitudinal shear method is not applicable.

There are two bond lines in the test piece, and the breaking stress is not a simple function of the area coated by the adhesive. Nevertheless, the stress in the adhesive is less subject to stress components (other than that of shear) than is the case in simple single lap joints.

As the breaking force can be influenced by the dimensions of the adherends, the bond-line thickness and the rate of change of stress, it is necessary to standardize the procedure in order to obtain reproducibility.

It is envisaged that this test will be used on adhesives for civil engineering.

The test does not necessarily reflect how an adhesive would perform in service. Such design data would usually be obtained using the construction materials and configurations used in an actual design.

WARNING NOTE. This British Standard calls for the use of substances and/or procedures which may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Adhesive Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 28 September 1990

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 3 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date of issue	Comments

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