



Determination of Adhesion of Sealing Compounds

1 Introduction

Note: Nothing in this standard supercedes applicable laws and regulations.

Note: In the event of conflict between the English and domestic language, the English language shall take precedence.

1.1 Purpose. This test procedure shall be used to determine the adhesion of sealing compounds such as seam sealing compound, flange sealing compound, underseal, etc., on the adhesion bases on which these materials are used.

1.2 Applicability. Sealing compounds such as seam sealing compound, flange sealing compound, underseal, etc., on the adhesion bases on which these materials are used.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

None

2.2 GM Standards/Specifications.

None

3 Resources

3.1 Facilities.

3.1.1 Calibration. The test facilities and equipment shall be in good working order and shall have a valid calibration label.

3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment.

3.2.1 Sharp-edged metal spatula.

3.2.2 Scraper.

3.3 Test Vehicle/Test Piece. The test sheet shall consist of flat and burr-free original body sheet metal. The surface quality of the test sheet metal shall be selected to correspond to the information on the part drawing or in the material specifications. The size of the test sheet metal shall be at least 250 mm × 100 mm × 0.8 mm (length/width/depth).

3.4 Test Time. Not applicable.

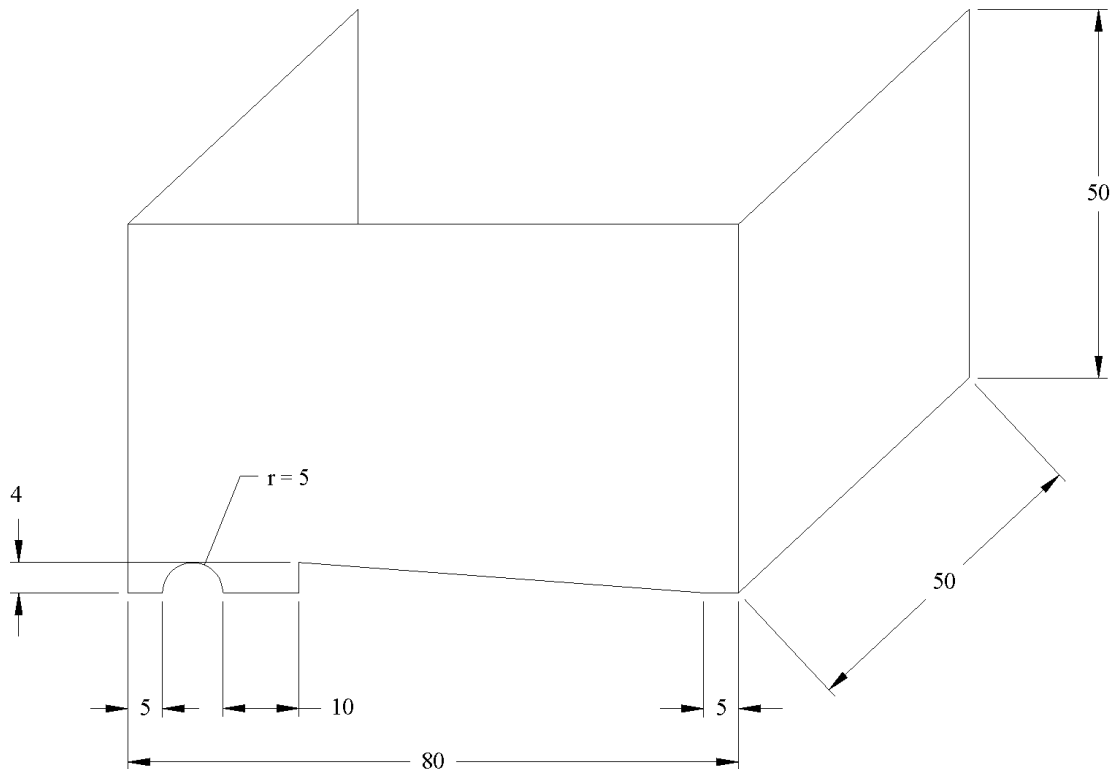
3.5 Test Required Information. Not applicable.

3.6 Personnel/Skills. Appropriate skilled worker for material testing purposes.

4 Procedure

4.1 Preparation.

4.1.1 Test Sample Preparation. The sealing compound being tested shall be stirred vigorously with a spatula for one (1) minute before the start of the test. The sealing compound shall be applied to the test sheet metal using the scraper (see Figure 1). The hardening of the sealing compound shall be carried out according to the relevant material specification.



Note: All dimensions are in millimeters

Figure 1: Scraper

4.2 Conditions.

4.2.1 Environmental Conditions. Not applicable.

4.2.2 Test Conditions. Deviations from the requirements of this standard shall have been agreed upon. Such requirements shall be specified on component drawings, test certificates, reports, etc.

4.3 Instructions.

4.3.1 Test Procedure. After hardening, cooling to $+23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ and storage according to the relevant material specifications, the adhesion of the sealing compound to the test sheet metal shall be determined. A part of the sealing compound is detached using a sharp-edged metal spatula inserted into the border surface of the sealing compound/test sheet metal and then jerked upwards at an angle of approximately 90 degrees (see Figure 2).