



Water Vapor Permeability of Upholstery Trim Materials

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 standard shall be used to determine water vapor permeability of leather and textiles used as upholstery trim material.

1.2 Applicability. Upholstery material (leather, fabric, plastic roll goods).

1.3 Remarks. Water Vapor Permeability is a parameter which characterizes the comfort factor of leather on a seat in contrast to artificial leather.

2 References

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

2.1 External Standards/Specifications.

ISO 261 ISO 2768

2.2 GM Standards/Specifications.

GMW3221

3 Resources

3.1 Facilities. Desiccator cabinet of sufficient size to accommodate the test vessel.

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

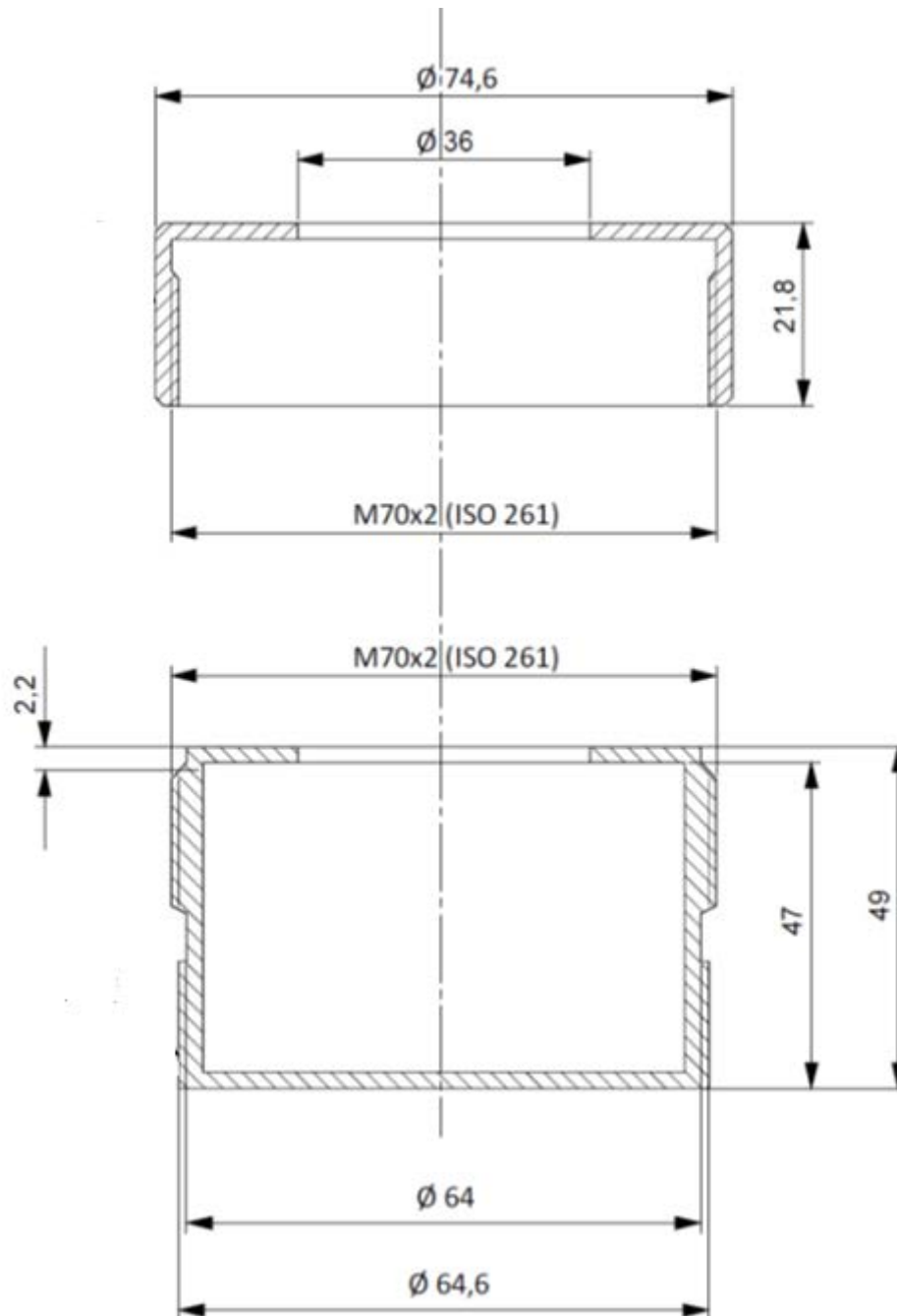
3.1.2 Alternatives. Alternative test facilities and equipment may also be used. However, all measuring variables as specified in this standard shall be determined correctly with respect to their physical definition.

3.2 Equipment.

3.2.1 Analytical balance accurate to 1 mg.

3.2.2 Cylindrical test vessel of aluminum with screw cover. See Figure 1.

Note: The hole diameter of the cover is 36 mm for a total test area of 10 cm².



Note: All dimensions in millimeters. General tolerances according to ISO 2768 Method M - Mass approximately 136 g.

Figure 1: Test Vessel

3.2.3 Apparatus for conditioning according to GMW3221.

3.2.4 Cutting dies or shears for preparation of test pieces.

3.2.5 One thousand grams (1000 g) silica gel dried prior to each test for 2 h at $+105\text{ °C} \pm 3\text{ °C}$.

3.2.6 Deionized water.