BRITISH STANDARD AUTOMOBILE SERIES

BS AU
148-10:1969

Methods of test for motor vehicle paints —

Part 10: Resistance to heat and corrosion

UDC 629.113:667.613:667.637.2

This British Standard, having been approved by the Automobile Industry Standards Committee, was published under the authority of the Executive Board of the Institution on 31 March 1969

The following BSI reference relates to the work on this standard:
Committee reference AUE/-

ISBN 0 580 05308 3

Amendments issued since publication

Amd. No.	Date	Comments

Contents

Foreword

This Part of this British Standard has been prepared under the authority of the Automobile Industry Standards Committee and is based on Information Sheet No. NM – 5U of the Society of Motor Manufacturers and Traders Ltd. (SMMT).

Tests for paints for general purposes are given in BS 3900[1)] and, wherever possible, reference has been made to that standard.

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.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, page 1 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.

[1)] BS 3900, "*Methods of tests for paints*".

1 Scope

This Part of this British Standard describes a method to be used for the evaluation of the resistance of paints applied to a combination of heat and corrosion, e.g. as applied to exhaust/silencer assemblies.

2 Preparation of test panels

2.1 Panels, 150 mm × 100 mm, or other convenient size specified and pretreated in accordance with the requirements of BS 3900, Part A3[2)] (note particularly Clause **2.2**) shall be coated in accordance with the requirements of BS 3900, Part 4[2)] with the paint system to be tested.

2.2 Panels shall be aged under normal laboratory conditions for 24 h before testing, unless otherwise agreed.

3 Test method

3.1 The test panel shall be subjected to 3 cycles of test each consisting of:

1) 8 h exposure to a temperature of 200 ± 5 °C in an air circulating oven. Temperatures in excess of 200 °C may be used, by arrangement between the purchaser and the supplier.

2) Cooling to room temperature.

3) 16 h exposure to 5 % salt spray in accordance with Part 17[3)].

3.2 On completion of the 3 cycles the test panel shall be examined for evidence of blistering, flaking, loss of adhesion sod presence of corrosion.

[2)] BS 3900, Part A3, "*Preparation of panels prior to painting*". Part A4, "*Notes for guidance on paint application*".
[3)] BS AU 148, Part 17, "*Salt spray*".