

Methods of test for motor vehicle paints —

Part 10: Resistance to heat and corrosion

UDC 629.113:667.613:667.637.2

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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.

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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

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Contents

	Page
Foreword	ii
1 Scope	1
2 Preparation of test panels	1
3 Test method	1

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 3900¹⁾ and, wherever possible, reference has been made to that standard.

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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 A3²⁾ (note particularly Clause 2.2) shall be coated in accordance with the requirements of BS 3900, Part 4²⁾ 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 17³⁾.

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