



MALAYSIAN STANDARD

MS 1077-8:2012

**Brake fluids - Test method - Part 8: Water
tolerance
(Second revision)**

ICS: 75.080

Descriptors: brake fluids, test method, water tolerance

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Committee representation

The Industry Standards Committee on Petroleum and Gas (ISC H) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Association of Malaysian Oil and Gas Engineering Consultants
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers - Malaysian Industrial Gases Manufacturers Group
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Pengangkutan Jalan Malaysia
Kastam Diraja Malaysia
Malaysian Gas Association
Malaysian Palm Oil Board
Malaysian Plastics Manufacturers Association
Ministry of Domestic Trade, Co-operative and Consumerism
Ministry of International Trade and Industry
Petroleum Nasional Berhad
PETRON Malaysia Refining & Marketing Bhd
PETRONAS Group Technology Solutions
SIRIM Berhad (Secretariat)
Shell Malaysia Trading Sdn Bhd
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Teknologi Malaysia
Universiti Teknologi PETRONAS

The Technical Committee on Petroleum Lubricants which developed this Malaysian Standard consists of representatives from the following organisations:

Chevron Malaysia Limited
Department of Chemistry, Malaysia
Malaysian Automotive Association
Ministry of Domestic Trade, Co-operative and Consumerism
Perodua Manufacturing Sdn Bhd
Perusahaan Otomobil Nasional Sdn Bhd
PETRONAS Dagangan Berhad
PETRONAS Research Sdn Bhd
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
Society of Automotive Engineers
Universiti Malaya
Universiti Teknologi Malaysia

FOREWORD

This Malaysian Standard was developed by the Technical Committee on Petroleum Lubricants under the authority of the Industry Standards Committee on Petroleum and Gas.

This Malaysian Standard is the second revision of MS 1077: Part 8, *Method of test for brake fluids - Part 8: Water tolerance*.

Major modifications in this revision are as follows:

- a) incorporation of subclauses 3.1 and 3.2 for terms and definitions on “crystallisation” and “stratification/slugging”;
- b) the testing time at low temperature -40 °C has been changed from “(120 ± 2) h” to “(22 ± 2) h” in Clause 4 and subclause 6.1
- c) the test procedure at low temperature -40 °C has been rephrased in subclause 6.1; and
- d) the testing time at high temperature at 60 °C has been changed from “(24 ± 2) h” to “(22 ± 2) h” in subclause 6.2.

MS 1077 consists of the following parts, under the general title *Brake fluids - Test method*:

Part 1: Equilibrium reflux boiling point (ERBP)

Part 2: Wet equilibrium reflux boiling point (Wet ERBP)

Part 3: pH value

Part 4: Fluid stability

Part 5: Corrosion

Part 6: Fluidity and appearance at low temperature

Part 8: Water tolerance

Part 9: Compatibility

Part 10: Resistance oxidation

Part 11: Effects on SAE SBR WC cups

Part 12: Stroking properties

This Malaysian Standard cancels and replaces MS 1077: Part 8:2003.

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