# MALAYSIAN STANDARD

**MS 53 : 1993**
**ICS : 65.080**

## SPECIFICATION FOR AMMONIUM NITRATE FERTILIZER (FIRST REVISION)



SIRIM **STANDARDS & INDUSTRIAL RESEARCH INSTITUTE OF MALAYSIA**

This Malaysian Standard, which had been approved by the Chemical and Pharmaceutical Industry Standards Committee and endorsed by the Board of the Standards and Industrial Research Institute of Malaysia (SIRIM) was published under the authority of the SIRIM Board in December, 1993.

SIRIM wishes to draw attention to the fact that this Malaysian Standard does not purport to include all the necessary provisions of a contract.

The Malaysian Standards are subject to periodical review to keep abreast of progress in the industries concerned. Suggestions for improvements will be recorded and in due course brought to the notice of the Committees charged with the revision of the standards to which they refer.

The following references relate to the work on this standard:
Committee reference: SIRIM 482/2
Draft for comment: D235 (ISC B)R

Amendments issued since publication

| Amd. No. | Date of issue | Text affected |
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## Committee representation

The Chemical and Pharmaceutical Industry Standards Committee under whose supervision this Malaysian Standard was prepared, comprises representatives from the following Government Ministries, trade, commerce and manufacturer association, scientific and professional bodies.

Federation of Malaysian Manufacturers
Institut Kimia Malaysia
Malaysian Ceramic Industry Group
Malaysian Paint Manufacturers Association
Ministry of Agriculture (Agricultural Department)
Ministry of Defence (Defence Science and Technology Centre)
Ministry of Primary Industries (Geological Survey Department)
Ministry of Science, Technology and the Environment (Chemistry Department)

The Working Group on Fertilizers which prepared this Malaysian Standard consists of the following representatives:

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| Encik Poon Yew Chin (Chairman) | The Malaysian Society of Soil Science |
| Dr. Abdul Aziz Hj. Bidin | Malaysian Agriculture Research and Development Institute |
| Dr. Lau Chee Heng | Rubber Research Institute of Malaysia |
| Dr. Zin Z. Zakaria | Palm Oil Research Institute of Malaysia |
| Dr. Soong Ngin Kwi | Malaysian Rubber Producers' Council |
| Encik Chong Kok San/Encik Peter Shanta | Federation of Malaysian Manufacturers |
| Encik Leong Cheng Woh | Felda Agricultural Services Corporation |
| Encik Lee San Chin | Department of Agriculture |
| Encik Eddie Chew/Encik Wong Kean Hong/ Encik Loke Keng Hung | Fertilizer Industry Association of Malaysia |
| Cik Fazila Abu Bakar | Malaysian Industrial Development Authority |
| Encik Chan Khoon San | Malaysian Oil Palm Growers' Council |
| Cik Mary Ngu Toh Ing (Secretary) | Standards and Industrial Research Institute of Malaysia |

**Co-opted members:**

| | |
|---|---|
| Dr. Alias Husin | Petroleum Research Institute |
| Dr. Sharifuddin A. Hamid | National Association Small Holder |
| Encik Ramakrishnan | FPM Sdn. Bhd. |
| Encik Hanifuddin Abdul Rahman | Rubber Industry and Smallholder Development Authority |

**Invited member:**

| | |
|---|---|
| Tn. Hj. Mohd Nor Abu Bakar | ASEAN Bintulu Fertilizers |

# FOREWORD

This Malaysian Standard was prepared by the Working Group on Fertilizers established under the authority of Chemical and Pharmaceutical Industry Standards Committee.

This standard was first published in 1972 as MS 53 - `Specification for ammonium nitrate fertilizer'.

There was no change featured in this revision and only streamlining was done.

This standard is to be used in conjunction with the Malaysian Standard MS 417, The analysis of fertilizers. This standard consist of eight parts as follows:

(1) Part One: Method of sampling and sample preparation.

(2) Part Two: Method for the determination of moisture content, particle size and ash content.

(3) Part Three: Method for the determination of nitrogen.

(4) Part Four: Method for the determination of phosphorus.

(5) Part Five: Method for the determination of potassium.

(6) Part Six: Method for the determination of magnesium.

(7) Part Seven: Method for the determination of boron.

(8) Part Eight: Method for the determination of secondary properties.

This Malaysian Standard supersedes MS 53:1972.