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# MALAYSIAN STANDARD

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MS 13 : 1993  
ICS : 65.080

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**SPECIFICATION FOR AMMONIUM SULPHATE,  
FERTILIZER GRADE  
(FIRST REVISION)**



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

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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: D230 (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:

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 Kw i	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/	Fertilizer Industry Association of Malaysia
Encik Loke Keng Hung	
Cik Fazila Abu Bakar	Malaysian Industrial Development Authority
Encik Chan Khoon San	Malaysian Oil Palm Growers' Council
Encik Ler Leong Tat/	
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
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## **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 1971 as MS 13 - 'Specification for ammonium sulphate, fertilizer grade'.

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

In this revision, besides giving consideration to local requirements and consideration of materials normally imported into Malaysia, the following document has also been referred:

The Fertilizer (Control) Order, 1985 and the Essential Commodities Act, 1955 by The Fertilizer Association of India. New Delhi.

This standard is to be used in conjunction with the Malaysian Standard MS 417, The analysis of fertilizers. This standard consists 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 13:1971