

STANDARD BUYING SPECIFICATION

Should a Tenderer/Vendor not be able to meet the requirements of this document, it must be declared in writing to the Buying Manager at the time of tendering/receipt of an order.

Code number : 100005002
Amendment : 2
Amendment date : 1988/06/15

This specification is the only document which shall be used for the tender, manufacture and acceptance of the item specified herein.

SECTION A: GENERAL

1. ITEM

Sulphuric acid, H_2SO_4 and Oleum.

2. GENERAL DESCRIPTION

The material shall consist of chemically pure Sulphuric acid free from sediment, suspended matter and separated materials.

Colour: Not more than the following Lovibond units when packed:

Red: 0,5; Yellow: 2,0; Blue: 0,4

3. RELATED DOCUMENTS

- 3.1 JAN - A - 179
- 3.2 SABS 0157
- 3.3 AECI Prod. spec. XP 31

4. REQUIREMENTS

4.1 Chemical composition and test methods

Composition	Limits	Test method
1. Sulphuric acid content, as H_2SO_4	98% (m/m) min.	LM/3/44.6
2. Residue on ignition	0,01% (m/m) max.	LM/3/44.7
3. Heavy metals, as Pb	0,0005% (m/m) max.	LM/3/44.11
4. Iron, as Fe	0,00015% (m/m) max.	LM/3/44.9
5. Oxidizable impurities, as SO_2	0,0005% (m/m) max.	LM/3/44.10
6. Arsenic, as As	0,0002% (m/m) max.	LM/3/44.12
7. Chloride, as Cl	0,0003% (m/m) max.	LM/3/44.8
8. Nitro bodies	None	LM/3/44.13
9. Suspended matters	0,05% (m/m) max.	LM/3/44.14

NOTE: The Test methods mentioned above are contained in Lab Method LM/3/44 and will be provided to the supplier on request.

5. DOCUMENTATION

The following documents must be forwarded with each consignment of Sulphuric acid.

- 5.1 The original standard buying specification which accompanied order in the case of a single consignment or the final consignment of staggered deliveries.

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- 5.2 A certificate of analysis stating all the results of the tests conducted by the supplier during manufacture and final acceptance.

The supplier's delivery note shall clearly state PMP's order number as well as PMP's code number.

6. PACKING

- 6.1 The Sulphuric acid must be supplied in sound, dry air tight containers of approved pattern, complying to statutory requirements.
- 6.2 The method of packing and the quantity to be supplied in each separate container shall be negotiated between the supplier and the purchaser.
- 6.3 When placing the order the purchaser shall stipulate the exact method of packing required. Any deviation from this method of packing as well as the inclusion of any foreign matter or impurities in any of the containers shall render the whole consignment liable to rejection.

NOTE: Normally it is preferable that the acid be delivered in bulk and transferred to a storage tank and in this case the container identifications may be ignored.

SECTION B: QUALITY ASSURANCE

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1. QUALITY ASSURANCE PROVISIONS

1.1 Responsibilities

- 1.1.1 The purchaser or his representative reserves the right of inspection of Laboratory Certificates as well as Production Quality Control Certificates of raw materials and components used for the manufacture of the applicable consignment of Sulphuric acid.
- 1.1.2 The supplier shall be responsible for making available to the purchaser all gauges and facilities necessary, if required, for the inspection of the Sulphuric acid.
- 1.1.3 The purchaser reserves the right at all times to audit the supplier's production facilities to ascertain whether quality requirements are being met.
- 1.1.4 The supplier will be responsible for the implementation of the applicable quality management systems according to SABS 0157 to assure the appropriate quality of the product.

1.2 Identification

All containers are to be legibly and durably marked with the following details:

- 1.2.1 Description as in the title of this standard
- 1.2.2 Code number
- 1.2.3 Order number
- 1.2.4 Containers belonging to the same order must be numbered consecutively in a closed series.
- 1.2.5 Tare and nett masses
- 1.2.6 Contractor's initials or recognised trademark.
- 1.2.7 Additional markings called for in the contract or order.
- 1.2.8 Name of supplier
- 1.2.9 Grade and size
- 1.2.10 Date of manufacture
- 1.2.11 International pictograms

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1.3 Lot identification

1.3.1 The material shall be supplied in lots, where a lot is defined as the identifiable quantity of material produced by one manufacturer in one unchanged process, using the same materials and methods in accordance with the same specification.

1.3.2 The supplier shall ensure that all deliveries to the end user are fully traceable by lot number and that identification records be supplied to the end user to match lot number with inspection records.

1.4 Sample Procedures

1.4.1 The supplier must provide on delivery of the whole consignment or earlier a homogeneous sample, which shall be representative of each lot supplied, of not less than 1000ml free of charge. The total size of the manufacturing lot from which this sample was taken must also be indicated on the sample container.

1.4.2. The purchaser may take samples of any reasonable amount from any portion of the consignment and if, on examinations, any sample be found not to conform to this specification, the whole consignment may be rejected.

2. ROUTINE TESTS TO BE CONDUCTED BY THE SUPPLIER

The following tests must be conducted by the supplier during the manufacture and final acceptance of the products and the results must be forwarded to the Acceptance Authority with every consignment on the certificate of analysis.

2.1 Chemical composition

In accordance with Section A paragraph 4.

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3. ROUTINE TESTS TO BE CONDUCTED BY THE PURCHASER

The following will be the minimum tests conducted by the purchaser during inspection of incoming products.

3.1 Chemical composition as specified in Section A paragraph 4.

4. PLEASE NOTE

If the supplier of the Sulphuric acid to the purchaser is not the original manufacturer, the full name and address of the original manufacturer must be supplied in writing prior to the despatch of the Sulphuric acid. The original documentation, from the manufacturer, concerning the composition and chemical composition, mechanical and metallurgical properties must accompany the shipment of Sulphuric acid.

AMENDMENT HISTORY

Amendment 1 (1986/07/04)

Specification altered according to RFC SA 048/86.

AMENDMENT 2 (1988/06/15)

Para 4: Arsenic limit changed from 0,01 - 0,0002%. Refer to RFC SA 057/88.