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DENEL



PRETORIA METAL PRESSINGS

a division of Denel (Pty.) Ltd

SPECIFICATION FOR 99,995% PURE ZINC INGOTS

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.

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APPROVAL

FOR ORIGINAL SIGNATURES SEE ISSUE 1

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AMENDMENT HISTORY

ISSUE	DETAILS	ECP NO	DONE BY	DATE
3	Update chemical composition specification.	E2/134/09SA	I.P.	22/06/2009

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1. **SCOPE**

This specification covers the requirements for 99,995% pure zinc ingots that conforms to this specification. (Zincor grade: SHG)

2. **APPLICABLE DOCUMENTS**

Not applicable.

3. **REQUIREMENTS**

The material shall be supplied as ingots with a mass of ± 30 kg per ingot.

3.1 **Chemical composition**

ELEMENT	SPECIFICATION %
Zinc (Zn)	99,995 Minimum
Lead (Pb)	0,003 Maximum
Iron (Fe)	0,002 Maximum
Cadmium (Cd)	0,003 Maximum
Aluminium (Al)	0,0005 Maximum
Copper (Cu)	0,001 Maximum
Tin (Sn)	0,001 Maximum

3.2 **Workmanship**

The material must be free from foreign material .

4. **QUALITY ASSURANCE PROVISIONS**4.1 **Responsibility for inspection**

- 4.1.1 Unless otherwise specified in the contract or order, the supplier is responsible for the performance of all inspection requirements as specified herein.
- 4.1.2 Except where otherwise specified, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements.
- 4.1.3 The purchaser or his representative reserves the right of inspection of Laboratory certificates of raw materials and components used for the manufacture of the material.
- 4.1.4 The supplier shall be responsible for making available to the purchaser all facilities necessary if required, for inspection of the material.

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- 4.1.5 The supplier will be responsible for the implementation of an applicable quality management system to assure the appropriate quality of the product. The purchaser reserves the right to audit the supplier's production facilities at all times to ascertain whether quality requirements are being met.

5. BATCH IDENTIFICATION

- 5.1 The material shall be supplied in batches, where a batch 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.
- 5.2 The supplier shall ensure that all deliveries to the end user are fully traceable by batch number and that identification records be supplied to the end user to match batch number with inspection records.

6. PREPARATION FOR DELIVERY

6.1 Packing

- 6.1.1 The material must be supplied in strapped bundles suitable for forklift handling. The mass shall not exceed 3 000kg.

6.2 Package marking

All bundles, to be legibly and durably marked with the following details on suitable labels:

- 6.2.1 Document and order number.
 6.2.2 Name of supplier.
 6.2.3 Batch number.
 6.2.4 Zinc grade and colour code ("Zinc 1" colour code: Red "S").

6.3 Documentation for delivery

The following documents must be forwarded with each consignment of material:

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

7. NOTES

If the supplier of the material is not the original manufacturer, the full name and address of the manufacturer must be supplied in writing with the submission of a tender.

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