

MATERIAL SPECIFICATION

**Arconic-Köfém Mill
Products Hungary Llc.**

I.D. No.:
O-SPEC-52-EURAMG100ING

Date: 2003.02.19.

Modification: 7/25.03.2020

Magnesium SPECIFICATION



Prepared by: Berki Csaba
Checked by: Szalai Viktor

Approved by: Szántó Róbert

1. Item: EURAMG100ING

2. Chemical composition:

Product supplied under the terms of this specification shall conform to the following chemical composition limits:

| | Min. (%) | Max. (%) |
|-----------|----------|----------|
| Mg | 99,9 | |

| Other elements | Max. (%) |
|----------------|----------|
| Si | 0,02 |
| Fe | 0,03 |
| Cu | 0,01 |
| Mn | 0,03 |
| Na | 0,01 |

3. Physical characteristics:

Surface of Mg ingots weighing 7-8 KGs should be metallic, shiny, free of oxidation, protective coatings and surface wetness which would cause metal explosion when getting into molten metal. MG metal should be free of any kind of physical contaminations having negative effect on the composition or structure of finished goods (oil, oilmud, dust).


4. Packaging and delivery:

4.1. Material and shape of pallet:

The material of the pallets shall be exclusively magnesium metal and shall be equal to the chemical composition of the ingots. Size and form of magnesium pallets should be designed to enable the pallets to be moved by fork lift trucks by all the four sides, allowing a space of a minimum of 100 mm for the truck's fork at the bottom of the pallets.

4.2. Weight and size of magnesium lot:

Weight and size of magnesium lot is defined by the physical parameters of pre-heating furnaces. One individual lot shall weigh maximum 1 MT, with the size of 900x900x1000 mm.

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4.3. Striping, fixing and packaging:

- Ingots shall be stacked by steel stripes. 3 stripes per side are necessary to avoid the lot falling apart.
- Foil sack as covering material should be applied with each lot. Stripes should be placed under the sack to make the foil possible to be moved before pre-melting.
- Application of textile hoods is necessary with each lot to protect the foil cover from damages during transportation. This textile hood should be fixed by 1 plastic stripes per each side.

4.4. Marking (on two sides, giving the information as follows):

- name of producer (name of smelter)
- name of goods (Mg metal)
- net weight (in KGs)
- serial number of the pallet (according to packing list)

4.5. Delivery

- Pallets to be delivered by normal tilt trailer, which can be unloaded from the side.

5. Accompanying documents:

Each delivery should be supplied by:

- Producer's certificate of analysis per each charge
- Safety Data Sheet: only with first delivery and in case of a new or renewed SDS
- Shipping document
- Packing list
- ISO 9001 certificate (only with first delivery and in case of a new or renewed qualification)
- One of the documents must contain:
 - Item name
 - Origin of the material
 - Specification I.D. No. and the modification date
 - Purchase order number
 - Name of the producer

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6. Other informations:

ARCONIC-KÖFÉM MILL PRODUCTS HUNGARY Llc. Casthouse maintains a quality management system as per AS9100D aerospace requirements.

Section 8.4.3. of AS9100D Standard requires you, suppliers of Arconic-Kofem Mill Products Hungary Llc. to meet certain notification/information requirements, with special attention to the following:

- Obligation to provide information if you become aware of a deviation that occurred in your process earlier and could adversely affect the product quality or production processes of Arconic-Kofem Mill Products Hungary Llc.
- Should you be forced to deliver product deviating from the product specification then a deviation permit shall be obtained from Arconic-Kofem Mill Products Hungary Llc. prior to the receipt of the shipment
- Arconic-Kofem Mill Products Hungary Llc. shall be notified on changes of the manufacture process or product quality, relocation of the production to another manufacturing plant.

Arconic-Kofém Mill Products Hungary Llc. requires from its suppliers/vendors that Arconic-Kofem Mill Products Hungary Llc. representatives and its customers will have the right to perform process audit or regulatory authority audit in the supplier's/vendor's plant or at the place of manufacturing at all reasonable times, upon advance notice. The supplier shall ensure the access to manufacturing areas and relevant records/documents for the purpose of the audit.

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| Revision | Reason for Change | Changed Page(s) | Date of Change |
|----------|---|-----------------|----------------|
| 6 | Company name change. Chapter: 2. Fe and Mn level 4.4 pallets marking on two sides 5. Added to Accompanying documents: Purchase order number and name of the producer. SDS requirement 6. AS9100D | 1, 2 and 3 | 11/03/2019 |
| 7 | Company name change | 1, 2 and 3 | 25/03/2019 |
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Csak olvasásra