

MATERIAL SPECIFICATION

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

I.D. No.:
O-SPEC-60-EURATI0502BROD

Date: 2003.02.19.

Modification: 7/17.03.2020

AlTi5B0,2 rod SPECIFICATION



Prepared by: Berki Csaba
Checked by: Szalai Viktor

Approved by: Szántó Róbert

1. Item: EURATI0502BROD

2. Chemical composition:

	%MIN	%MAX	%TARGET
Ti	4,5	5,5	5,0
B	0,15	0,25	0,20
Si		0,20	
Fe		0,30	
V		0,20	

Other elements	%MAX.
Others each	0,03
Others total	0,10
Aluminium: remainder	

3. Microstructure:

Size of Al₃Ti particles: average max. 60 µm, larger than max. 200 µm not more than 1/cm², agglomerates less than 1.5/cm², max. 300 µm.

Size of TiB₂ particles: average max. 3 µm, larger than max. 8 µm not more than 1/cm², agglomerates less than max. 25 µm not more than 2/cm².

Uniform structure:



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4. Size / form:

Rod form with a diameter of 9,5 mm. Rod to be delivered in form of coils. 1 coil weighs 180 KGs. Sizes of the coils:

Diameter_{inner}: 375 +10/-0 mm,

Diameter_{outer}: 740 +/-10 mm,

Thickness: 270 +/-10 mm.

5. Packaging and delivery:

Each coil to be striped individually at 3 places (with steel stripes of 16x0,5 mm)

Colour code is green-black: each coils should be marked on the top and the side too.

3 coils per pallet, fixed to the pallet at 2 places by steel stripes, coils to be covered by shrink foil. Coils to be placed onto EURO pallets weighing maximum 1 MT, suitable for moving by forklift truck by all the 4 sides.

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

6. Marking:

Pallets should be marked by 2 sides with plastic labels (1 outside and 1 inside fixed on the coil). Marking should include the data as follow:

- Name of product
- Gross and net weight
- Name of producer
- Pallet's serial number

7. 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 name
 - Purchase order number
 - Name of the producer

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8. 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: 3. updated microstructure 7. Added to Accompanying documents: Purchase order number and name of the producer. SDS requirement 8. AS9100D	1, 2 and 3	11/03/2019
7	Company name change	1, 2 and 3	17/03/2020