



## Malt mill in cast iron

We, **Brouwland**, Korpelsesteenweg 86, 3581 Beverlo, Belgium, declare that the following articles

### 110.030.4 malt mill in cast iron

Made of cast iron and used for grinding grains

are within the specifications required for the content of gray iron, heavy metals, mechanical strength and specifications for casting according to the following standards:

**NTC 1370** (*gray iron casting classification*)

**ASTM A48** (*Standard Specification for gray iron foundries*)

**NTC 17025.** (Mechanical Strength)

**NTC EN 71-3** (Lead, Cadmium in tin)

The analysis methods for determining the metal contents are:

**Fe** (iron): spectrometry inductively coupled plasma emission. Procedure SLO-EAT-QU-PR-055-03 and optical emission spectrometry.

IDENTIFICATION	% parts by weight Iron
Gray cast Iron	90 ± 2

**Sn** (tin), **Pb** (lead) and **cadmium** (Cd): Emission Spectrometer for Inductively Coupled Plasma, ICP 6300 ICAP DUO QU-046-M

ELEMENT	
Tin (Sn) %p/w	99,95 ± 2
Lead (Pb) %p/w	0,047 ± 0,003
Cadmium (Cd) %p/w	0,002 ± 8E (-5)

### Mechanical strength.

- Maximum resistance probe 01: 24.39 kgf/mm<sup>2</sup>
- Maximum resistance probe 02: 24.08 kgf/mm<sup>2</sup>

**Conclusion:** The material which makes the malt mill reference complies with the specifications of lead and cadmium content required by Technical Standard NTC EN 71-3.

Also meets ASTM A48 gray iron castings 17025 NTC mechanical strength. Mills may be in contact with food because the gray cast iron mill has a layer of electrolytic tinning, which gives insulation to metals harmful to health.

Signed and dated, Beverlo, 26/06/2013

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### Brouwland

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