



Declaration of conformity for materials and articles intended to come into contact with food

We, **Brouwland**, Korpelsesteenweg 86, 3581 Beverlo, Belgium,

Declare that the following articles

017.007.6 Demijohn 5L normal opening
017.010.0 Demijohn 10L normal opening
017.015.9 Demijohn 15L normal opening
017.025.8 Demijohn 25L normal opening
017.034.0 Demijohn 34L normal opening
017.054.8 Demijohn 54L normal opening

Made out of glass

And used as containers for the fermentation of wine and beer

are suitable to come into contact with food.

The glass complies with:

- **D.M. of 21/03/1973** and subsequent amendments (**D.L. 25/01/1992 n° 10, Directive 89/109/CEE, D.M. 28/10/1994 n° 735**)

This category includes any condition of the containers in contact with food of which the material above is in conformity with the technical specifications / requirements under the dimensional and qualitative usage and comply with their obligations under the laws in force in the field with regard to the D.L. 155/97.

The manufacturing process and handling of containers is such that the presence of foreign particles in them can only be determined by accidental causes unrelated to the same process.
In order to avoid contamination, however, technical measures have been taken to prevent unwanted accidental inputs. Control stations discard the carboys in which foreign particles are present even if arranged on the outer surface.

The provided containers are not sterilized.



The material complies with the following standards:

- **ISO Standard 7086-1:2000 "glass hollowcare in contact with food release of lead and cadmium"**

4 containers of 4700 ml were washed and filled with acetic acid 4% (1 mm from the edge) for 24h±30 minutes at 22±2°C, and placed in the dark.

After this treatment, the extract was analyzed by atomic absorption spectrometry, giving the following results:

Sample	Pb (mg/L)	Cd (mg/L)
1	< 0.1	< 0.05
2	< 0.1	< 0.05
3	< 0.1	< 0.05
4	< 0.1	< 0.05

Reference limits (ISO 7086-2:2000) for containers with a storage capacity ≥ 3L:

Pb ≤ 0.5 mg/L

Cd ≤ 0.25 mg/L

- **Release tests of containers intended to come into contact with food stuffs (D.M. 21/03/1973 and subsequent amendments, D.M. 28/10/1994 n° 735, Directive CE/1935/2004)**

1 container of 4700 ml was washed and filled with 4230 ml of distilled water and placed in an autoclave for 30 minutes at 120°C.

After that treatment the aqueous extract was concentrated and the dried residue was weighed in a platinum capsule, obtaining the following results:

Global migration = 7.2 mg/kg

Reference limit = ≤ 50 mg/kg

- **Legislation decree 5/02/1997 n° 22 (Decreto Ronchi): "implementation of the directives 91/156/CEE on waste, 91/689/CEE on hazardous waste and 94/62/CE on packaging and waste of packaging"**

Determination of lead and cadmium second method UNI 10938 (2001)

Determination of hexavalent chromium second method UNI 11079 (2003)

Determination of mercury second intern method LAC/MI/07-02 rev. 2:2008

Results:

Lead (Pb)	< 10 ppm (< 0.0010%)
Cadmium (Cd)	< 2 ppm (< 0.0002%)
Hexavalent chromium (Cr ⁶⁺)	< 2 ppm (< 0.0002%)
Mercury (Hg)	< 1 ppm (< 0.0001%)



- **"Glass-hydrolytic resistance of glass grains at 98°C – method of test and classification"**

Three samples of 2 g each of powdered glass, a particle size between 300 and 500 μm , treated as provided by the standard, were subjected to treatment with 50 ml of distilled water of $98 \pm 0.5^\circ\text{C}$ for 60 ± 1 minute.

After such treatment, the titration of 25 ml of solution, equivalent to 1 g of glass, required for the neutralization of 0.64 ml of HCl 0.01 mol /L equal to a supply of 198 μg of Na_2O / g glass calculated as the average value

Reference limit:

Hydrolytic class HGB3: $> 0.20, \leq 0.85$ ml HCl 0.01 mol/L

Signed and dated, Beverlo, 23/12/2013

Nadja Balis
Quality assistant