



Values potability test

Product:

100% Pure Polyurea

TECNOCOAT P-2049

Migration in contact with drinking water

(Inform nº 2232/09/8849)

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Product features

| PARAMETRO | RESULTADO | NORMA LEGISLATIVA |
|-----------------------------|-----------------|--------------------|
| Reaction at 20 ppm of clore | Without changes | No abnormal change |
| Conductivity (μS/cm) | <20.0 | <=2500 |
| Colour (mg/Pt/Co) | <10 | <=15 |
| Odor dilution Index | 1 | <=3 |
| Taste: Index dilution | 1 | <=3 |

Content control

| PARAMETER | RESULT | LEGISLATIVE NORM |
|--------------------------------------|--------|------------------|
| Turbidity (UNF) | 0.48 | <=5 |
| Amonium (mg/L) | <=0.5 | <=0.5 |
| Total organic carbon (TOC) (mg/L) | 13.0 | Sin cambios |
| Cianures (CN) (μg/l) | <=5.0 | <=50 |
| Combined chlorine residual (mg/L) | <=0.5 | <=2 |
| Free chlorine residual (mg/L) | <=0.5 | <=1 |
| pH (μpH) | 6.5 | >=6.5 >=9.5 |
| Nitrites (mg/L) | <0.5 | <=0.5 |
| Oxidizability (mg O ₂ /l) | 1.7 | <=5 |
| Sodium (Na) (mg/L) | 1.7 | <=200 |

Physical and chemical tests

| PARAMETER | | RESULT | LEGISLATIVE NORM |
|-----------------------------------|--------|--------|------------------|
| Clorures | (mg/l) | 3.3 | <=250 |
| Florures (F) | (mg/l) | <0.1 | <=1.5 |
| Nitrates | (mg/l) | <0.5 | <=50 |
| Sulfates | (mg/l) | <1.0 | <=250 |
| Aluminium (A) | | | <=200 |
| First migration | (µg/l) | 3.0 | |
| Antimonium (Sb) | (µg/l) | <2.0 | <5 |
| Arsenic (As) | (µg/l) | <2.0 | <=10 |
| Boron (B) | (mg/l) | <0.1 | <=1 |
| Cadmium (Cd) | (µg/l) | <1.0 | <=5 |
| Copper (Cu) | (mg/l) | <0.2 | <=2 |
| Chrome (Cr) | (mg/l) | <2.0 | <=50 |
| Iron (Fe) | (µg/l) | <10.0 | <200 |
| Magnesium (Mn) | (µg/l) | <2.0 | <=50 |
| Mercury (Hg) | (µg/l) | <0.2 | <=1 |
| Nickel (N) | (µg/l) | <2.0 | <=20 |
| lead (Pb) | (µg/l) | <2.0 | <=25 |
| Selenium (Se) | (µg/l) | <2.0 | <=10 |
| Volatile Organic Compounds | | | |
| 1,2 Dicloroetane | (µg/l) | <0.5 | <=3 |
| Trichloroethane+Tetrachloroethene | (µg/l) | <1.0 | <=10 |
| Trihalometanes | (µg/l) | 2.9 | <=100 |
| Benzene | (µg/l) | <0.5 | <=1 |

| | | | |
|---|--------|-------|--------|
| Polycyclic aromatic hydrocarbons | | | |
| Benzo-a-pyrene | (µg/l) | <0.01 | <=0.01 |
| Sum of polycyclic aromatic hydrocarbons | (µg/l) | <0.1 | <=0.1 |
| Pesticides | | | |
| Aldrin | (µg/l) | <0.01 | <=0.03 |
| Deldrin | (µg/l) | <0.01 | <=0.03 |
| Eptaclore | (µg/l) | <0.01 | <=0.03 |
| Eptaclore epoxide | (µg/l) | <0.01 | <=0.03 |
| Individual pesticide | (µg/l) | <0.01 | |
| Total plaguicides | (µg/l) | <0.50 | <=0.5 |
| Acilamide | | | <=0.1 |
| First migration | (µg/l) | <0.1 | <=0.1 |
| First migration | (µg/l) | <0.1 | <=0.1 |
| Epiclorhidrine | (µg/l) | <1.0 | <=0.1 |

Note: N.A. Not detected. The detection limit of the technique is 1µg / l According to Annex I of Royal Decree 140/2003, the ceiling set for epichlorohydrin is 0.1 mg / l.

The technique used for the determination of this parameter is the Gas Chromatography Mass, this technique, with the best value possible, does not lead to a detection limit below 1 ng / ml

The determination of the parameters with the exception of migration and the reaction to 20 ppm of chlorine has been performed in a laboratory employee file number 702 790.

Migration for polymeric materials:

- Means of mining: chlorinated water 1ppm of chlorine.
- Migration Temperature: 40 ° C.
- Contact time: washes are performed prior to the sample, as indicated in the standard EN-12873.

Then three cycles are performed 72horas, thus obtaining three test samples.

It examines the parameters in the first cycle of 72 hours, and only repeated in the second and third cycle parameters that are not within the limits of the RD 140/2003 in the first cycle.

- Sample volume: 1 liter for each 72-hour cycles.
- Contact Surface: 500 cm2.
- Surface / volume ratio: 500 cm2 / l.

CONCLUSION

The material is consistent, in terms of the parameters analyzed, with the requirements of Royal Decree 140/2003. All and epichlorohydrin has not been detected, it should note that the detection limit of it is greater than indicated, because the technique does not lead to a detection limit below 1 ng / ml

No chemical reaction product observed at 20 ppm of chlorine, the product complies with respect to this parameter with the requirements of Royal Decree 140/2003.

Note: The information in these values is based on our own current knowledge and existing laws of EU and national. The product should not be used for purposes other than those specified. It is always your responsibility to take necessary measures to comply with the requirements of existing laws. The information contained in these pages should not be considered as a guarantee of its properties.