



HYDROGEN PEROXIDE

DESCRIPTION

Hydrogen peroxide H_2O_2 is an environmentally friendly chemical, used for oxidation reactions. Decomposing to only oxygen and water, hydrogen peroxide is one of the cleanest chemicals available.

Its use is based on the working of active oxygen that is released upon the reaction of decomposition of hydrogen peroxide which oxidizes organic and inorganic compounds. Hydrogen peroxide is a slightly acidic, clear and colorless liquid, which is mixed with water in all proportions. The market products are stabilized aqueous solutions of the concentrations up to 60 w/w % of hydrogen peroxide.

Because of these properties, it is established in numerous areas as an agent for bleaching and various oxidations. It successfully replaces ecologically less acceptable products.

All grades are very pure and have excellent stability under normal storage conditions. In a year they lose less than 1 % of their concentration.

HYDROGEN PEROXIDE

Belinka Perkemija manufactures a wide range of Hydrogen Peroxide grades:

Technical Grade – H₂O₂

This quality of hydrogen peroxide H₂O₂ is mostly used as a bleaching agent in the pulp & paper industry, textiles, ecology, metallurgy, etc.

For the majority of industrial purposes Belinka Perkemija produces two different concentrations of peroxide; 35 % and 49,9 %. Both grades have excellent stability.

Technical Distilled Grade - H₂O₂

Belinka Perkemija produces Technical distilled peroxide in different concentrations: 35 %, 49,9 %, 59,9 % for various chemical reactions and special bleaching of textile, oxidizing agent and preparing mixed formulation with other chemicals.

Special grades - H₂O₂

There are a few special grades of hydrogen peroxide which Belinka Perkemija produces for different purposes of application, like food and feed, cosmetic, pharmacy, analytic chemistry, etc. Due to special stabilization techniques all grades have excellent stability under normal storage conditions and have prolonged shelf life.

Food and feed application: hydrogen peroxide 35 FC and 50 FC also meet with FCC (Food Chemical Codex).

Cosmetic application: hydrogen peroxide 35 LC and 50 LC is used in cosmetic formulations for haircare and oxidation of reductive dyes.

Pharmaceutical application: Belox[®] 30 is the product for special use in pharmacy and in other fields where Eu. Pharmacopeia is required.

Analytical chemistry: Hydrogen peroxide 30 % w/w pro analysis.

Biocide – Belox[®]

Belinka Perkemija produces hydrogen peroxide as biocide under the brand name Belox[®]. Biocidal peroxide can be used in various product type applications (food & beverage, veterinary, ecology, etc.).

Active substance of Belox[®] is stabilized water solution of 35 % and 49,9 % hydrogen peroxide. Belox[®] has been produced and registered under the European biocidal regulation.

IDENTIFICATION OF THE PRODUCT

Trade name: HYDROGEN PEROXIDE, 30-60 w/w %

Substance name: HYDROGEN PEROXIDE

Molecular formula: H₂O₂

Molecular Mass: 34,0 g/mol

CAS No.: 7722-84-1

EINECS No.: 231-765-0

CUSTOMS TARIFF NO (HS CODES): 2847 0000



POSSIBLE APPLICATIONS OF HYDROGEN PEROXIDE – BIOCIDES

PT 2	Surface disinfection by VHP process in private or public hygiene. Disinfection of rooms using the vaporized (250 to 400 ppm in air) hydrogen peroxide (VHP) process. Vaporized hydrogen peroxide is decomposed by the VHP machine after disinfection.
PT 3	Disinfection of animal housing by spraying aqueous solutions of 7.4 % (w/w) of hydrogen peroxide.
PT 4a	Aseptic packaging: Hydrogen peroxide is used to disinfect packaging for food products by immersion into 35 % (w/w) aqueous solutions.
PT 4b	Surface disinfection by VHP process in food processing facilities. The VHP process used in food processing areas is the same as the process under PT 2.
PT 4c	Disinfection of distribution systems for drinking water. The likely use concentration is 4 % (w/w)
PT 5	Disinfection of drinking water for humans and animals.
PT 12	Slimicides



PACKAGING

BELOX® 35 is delivered in the following packaging units:

- 20 l plastic drums
- 30 l plastic drums
- 60 l plastic drums
- 200 l plastic drums
- 1.000 l IBC containers
- in bulk (ISO portable tank, road tanker or rail tank wagon - RTC)

MORE INFORMATION

There are more data available from Belinka Perkemija TDS, specifications and advice regarding products.

Additional information relating to dangerous and physical-chemical properties, and other information that affect the safe use and handling of the product, can be found on the safety data sheet.

For additional information, please contact our Technical Service Team, phone +386 1 5886 330; e-mail: perkemija@belinka.si.



belinka perkemija

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A member of the European Helios Group.

More information and general terms available at www.belinka-perkemija.com.