TECHNICAL GASES AND DMW

CARBON DIOXIDE (liquid) - CO_2

DESCRIPTION

Under normal conditions carbon dioxide is a colorless, odorless gas, and of slightly sour taste. It is denser than air, inert, and non-combustible. It is liquefied at a pressure of 15 to 17 bar and temperature -30 to -35°C. CO_2 is not toxic and is present in the atmosphere at a concentration of about 0.03 vol. %. Higher concentrations are dangerous due to the reduction of oxygen in the air.

Belinka Perkemija produces liquid CO_2 to the quality required by the food industry.

IDENTIFICATION OF THE PRODUCT

Trade name: CARBON DIOXIDE, liquid
Substance name: CARBON DIOXIDE
IUPAC name: CARBON DIOXIDE
Molecular formula: CO2
Molecular Mass: 44 g/mol
CAS No.: 124-38-9
EI NECS No.: 204-696-9
CUSTOMS TARIFF NO (HS CODES): XXXXX

APPLICATION OF CO_2

In food industry for:
freezing, aerating beverages, the manufacture and packaging of food in an inert atmosphere, decantation of beer, cooling of food during transport, water softening.

In foundry industry:
for hardening of foundry cores, for cleaning in steel processing, as a blowing gas in casting.

In chemical industry:
as a protective gas for chemical synthesis, as a neutralizing agent, for the production of carbonates, for supercritical extraction, for grinding of granules, for the production of hollow-blown plastic.

In biology and medicine:
as a means of extinguishing fires in electrical installations and various chemicals, as a coolant for various purposes.

PACKAGING

Carbon dioxide is delivered in the following packaging units:
- in bulk

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HYDROGEN - H_2

DESCRIPTION

Belinka Perkemija produces hydrogen in the technological process of steam reforming (reaction between natural gas and steam). The production capacity for pure hydrogen is 225 kg/h.

The quality of hydrogen is (99.9 vol. %), since the majority of hydrogen is used in the production of hydrogen peroxide where almost 100% purity is required.

IDENTIFICATION OF THE PRODUCT

Trade name: HYDROGEN, gas
Substance name: HYDROGEN
IUPAC name: HYDROGEN
Molecular formula: H_2
Molecular Mass: 1 g/mol
CAS No.: 1333-74-0
EI NECS No.: 215-605-7

APPLICATION OF H_2

Hydrogen is mainly used in various syntheses as an alternative fuel. Once it was used as filling gas for balloons, and recently also as an energy source in fuel cells.

PACKAGING

Hydrogen is delivered in the following packaging units:
- in bulk

DEMINERALISED WATER (DMW) - H_2O

IDENTIFICATION OF THE PRODUCT

Trade name: DEMINERALISED WATER
Substance name: WATER
IUPAC name: WATER
Molecular formula: H2O
Molecular Mass: 18 g/mol
CAS No.: 7732-18-5
EI NECS No.: 231-791-2

DESCRIPTION

Belinka Perkemija produces demineralized water of high quality - under 0.05 µS.

APPLICATION OF DMW

Demineralized water has a very wide range of applications

PACKAGING

Demineralized water is delivered in the following packaging units:
- in bulk

MORE INFORMATION

There are more data available in TDS (technical data sheet), specifications and advices regarding products issued by Belinka Perkemija.

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.

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