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HYPROX® 500

Hydrogen peroxide for general industrial applications

HYPROX® 500 is a standard Hydrogen Peroxide Grade. HYPROX® 500 is an environmental friendly powerful oxidizing and bleaching agent, which is developed for general industrial use. HYPROX® 500 is an aqueous solution of a technical hydrogen peroxide. HYPROX® 500 is designed for use in the paper industry as a bleaching agent and for the deinking in wastepaper recycling; in the textile industry as a bleaching agent, oxidizer and de-sizing agent; in environmental protection for the treatment of wastewater, in flue gas and contaminated soil (bio-remediation); in the detergent and cleanser industry; in the chemical industry for epoxidation, hydroxylation and other oxidation reactions; for pickling of metal surfaces; as a bleaching agent for oils, waxes, fibres and other natural products.

For more detailed information please visit our home page in Internet www.evonik.com/H2O2 or contact us.

Standard specification (*)

Parameter	Value	Unit	Method
H2O2-Content, (w/w)	49,5 - 49,9	%	AIAOWM11
Decomposition rate, (16h/96°C)	≤ 5,0	%	AIAOWM21
pH (directly measured)	≤ 3,5		AIAOWM30

(*) The specification is valid for product distribution in Europe and Middle East.

Physical properties

HYPROX® 500 is a colorless clear liquid with pungent specific odor. HYPROX® 500 is miscible with water in all proportions.

Freezing point, °C	-52
Boiling point, °C	114
Density 20°C, g/ml	1,195

Classification

CAS No.:	7722-84-1
EINECS-No.:	231-765-0
REACH-No.:	01-2119485845-22-0000; 01-2119485845-22-0012; 01-2119485845-22-0016

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Packaging

HYPROX® 500 is available in 65 kg plastic canisters, 220 kg plastic drums (on request), 1200 kg plastic IBC-containers, tank containers, tank trucks and rail cars (on request).

Storage

HYPROX® 500 has to be stored in original containers or tank farms in a cooled, vented and protected from the direct sun irradiation area. It is important to keep hydrogen peroxide protected from all types of contamination and away from of combustible/oxidizable materials. For more detailed information please refer to material safety data sheet, our home page www.evonik.com/H2O2 or contact us.

Safe handling

While working with HYPROX® 500, always wear safety goggles and gloves. If there is a splashing risk, wear a face shield, plastic apron and boots. Have an eye bath and safety showers available. Ensure there is adequate ventilation where peroxide vapors may occur. Have water hoses available for fire fighting. Wash spilled peroxide away from handling and storage areas with plenty of water. Use clean vessels and equipment of compatible materials. Empty all utensils and drain equipment after use. Wash out with water. Prevent any contamination of peroxide. Do not return unused product to original container. Dilute with plenty of water and flush to drain. Avoid all contacts with combustible material, e.g. organic material or oxidizable products. Wash contaminated materials at once. On no account allow them to dry out before rinsing (e.g. clothing). Use only vessels or containers fitted with a safety vent in operable condition. For more detailed information refer to material safety data sheet.

Test methods

Hydrogen peroxide content in HYPROX® 500 can be determined quantitatively by titration with potassium permanganate or by density measurements. For qualitative identification of hydrogen peroxide special test strips can be used.

Hazards

HYPROX® 500 is classified as dangerous. Improper handling may result in rapid decomposition. For detailed information to labeling, transport regulations, first aid and toxicology information refer to material safety data sheet.

Transportation

UN Code	2014
ADR/RID Class	5.1
Packing group	II
Warning panel, Orange	58/2014

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