

HYPROX® 350

Hydrogen peroxide for general industrial applications

HYPROX® 350 is a standard Hydrogen Peroxide Grade. HYPROX® 350 is an environmental friendly powerful oxidizing and bleaching agent, which is developed for general industrial use. HYPROX® 350 is an aqueous solution of a technical hydrogen peroxide. HYPROX® 350 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)	35,0 - 36,0	%	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® 350 is a colorless clear liquid with pungent specific odor. HYPROX® 350 is miscible with water in all proportions.

Freezing point, °C	-33
Boiling point, °C	108
Density 20°C, g/ml	1,131

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

Packaging

HYPROX® 350 is available in 65 kg plastic canisters, 220 kg plastic drums (on request), 1100 kg plastic IBC-containers, tank containers, tank trucks and rail cars (on request).

Storage

HYPROX® 350 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® 350, 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® 350 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® 350 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

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.