

Technical Data Sheet

HYPROX[®] Hydrogen Peroxide

DESCRIPTION

Evonik HYPROX[®] Hydrogen Peroxide is suitable for most industrial uses including bleaching and environmental applications. Special grades are available for other industries such as cosmetics, pharmaceuticals and food. All hydrogen peroxide grades can be diluted with water that has been approved by Evonik.

Hydrogen peroxide is a clear, colorless liquid. It is miscible with water in any concentration. As it decomposes into water and oxygen, H₂O₂ does not leave any toxic residues. Hydrogen peroxide solutions themselves are nonflammable but can ignite flammable materials. Contamination with organic material such as dirt, heavy metals, salts, etc., can cause decomposition. Spills can be cleared up by washing with plenty of water.

SPECIFICATIONS

HYPROX [®] Hydrogen Peroxide		350	500	700
H ₂ O ₂ Concentration	% by Wt.	35.5 ± 0.5	50.5 ± 0.5	70.5 ± 0.5
pH		1.5 – 3.0	1.0 - 2.0	≤ 1.0
Decomposition	% of original Concentration (96 °C/16 h)	3.5 max	3.5 max	3.5 max

PHYSICAL PROPERTIES

Active Oxygen	% by Wt.	16.5	23.5	32.9
Density 20°C (68°F)	g/mL lb/gal	1.132 9.45	1.196 9.98	1.288 10.75
Freezing Point	°C °F	-33 -27	-52 -62	-40 -40
Boiling Point	°C °F	108 226	114 237	125 257
Vapor pressure 30°C (86°F)	mm Hg kPa	24 3.2	18 2.4	11 1.5

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