

From this day I (God) will bless you - (Bible)



## AEL CHEM ENTERPRISES

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### HYDROGEN PEROXIDE H<sub>2</sub>O<sub>2</sub>

Chemical Family : Peroxygen      CAS No : 772-84-1  
Hazard Class : NFPA hazard class II oxidizer      UN Number : 2014

#### CHEMICAL & PHYSICAL PROPERTIES

PARAMETER	H <sub>2</sub> O <sub>2</sub> – 35%	H <sub>2</sub> O <sub>2</sub> – 50%
H <sub>2</sub> O <sub>2</sub>	35%	50%
Water	65%	50%
Specific gravity @ 20oC	1.13	1.19
pH	2.0-3.0	1.0- 3.0
% stability, 3 Hrs	99.6	99.6
Active oxygen content, weight % of O <sub>2</sub> in H <sub>2</sub> O <sub>2</sub>	16.5 gms oxygen per 100 gms H <sub>2</sub> O <sub>2</sub> – 35%	H <sub>2</sub> O <sub>2</sub> 23.5 gms oxygen per 100 gms H <sub>2</sub> O <sub>2</sub> – 50%
H <sub>2</sub> O <sub>2</sub> Gms/L	369	600
Specific Gravity @ 20oC	1.13	1.19
Boiling Point oC	108	114
Freezing Point oC	-33	-52
iscosity @ 25oC (Centipoise)	1.0	1.06
Dielectric constant @ 20oC	83	83
Total vapour pressure @ 30oC (mm Hg)	23.3	18.3
Heat of dilution, cal/g mole @ 25oC & 1 atm	-84	-178
Volume Strength @ 0 deg oC & 1 atm	130 Lts oxygen per ltr H <sub>2</sub> O <sub>2</sub> – 35%	97 ltr oxygen per ltr H <sub>2</sub> O <sub>2</sub> – 50%