



# Hidrojen Peroksit SANAYİ VE TİCARET A.Ş.

Doc.No.: KAL-SPEC-021

## TECHNICAL DATA SHEET Hydrogen Peroxide (35%, 50%, 60%, 70%)

### Product Group:

Hydrogen Peroxide solution, 35%, 50%, 60%, 70% are suitable for industrial applications.

### Application:

Technical Grade hydrogen peroxides are used by the pulp and paper industry, they are used as desizing agents and to bleach natural and synthetic fibers. Technical Grades safety detoxifies many industrial wastes including phenolics and reduced sulfur compounds.

### Availability:

Technical Grade 35%,50%,60%,70% hydrogen peroxide are available in bulk truck or railcar quantities from

Hidrojen Peroksit A.Ş. 600 Evler Mahallesi Atatürk Caddesi

No: 80 10200 Bandırma , Türkiye

Tel : +90 266 721 03 12 Fax : +90 266 721 03 11

### Physical data:

Hydrogen peroxide is a clear, colorless, slightly viscous liquid. It is slightly denser than water but is miscible with water in all proportions. Hydrogen peroxide decomposes exothermally to water and oxygen with no toxic residues. The decomposition is normally slow (<1%/yr) with no temperature rise but is accelerated by heat and decomposition catalysts, such as transition metals and their compounds, strong acids and strong alkalis.

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### Typical properties:

H2O2 Content % by weight	35%	50%	60%	70%
Loss in % assay, 1yr, 25°C	<0.7	<1.0	<1.2	<1.4
Apparent pH	1.2-3.0	0.3-1.7	0.2-1.2	-0.7-0.7
Appearance	Clear, colorless , liquid	Clear, colorless , liquid	Clear, colorless , liquid	Clear, colorless , liquid
Stability, 24hrs @100°C	>=96.0%	>=96.0%	>=96.0%	>=96.0%
Specific gravity (20°C)	1.13	1.2	1.24	1.3
Boiling point, °C	108	114	122	126
Freezing point, °C	-33	-52	-54.5	-40

### Safety and Handling

#### Safety

Wear appropriate safety equipment at all times :

- PVC apron
- Face shield / goggles
- Safety shoes / gum boots
- PVC gloves

#### Handling

- All personnel must be familiar with the fire fighting equipment , safety showers and first – aid cabinets
- All personnel must pay strict attention to and comply with all warning and safety signs
- Empty drums should be rinsed with water before discarding
- Handling systems should be of compatible materials like glass , stainless steel , aluminum or plastic and should exclude iron , brass , copper , monel metal or red lead sealing compounds

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### Storage

H<sub>2</sub>O<sub>2</sub> should be stored in chemically, compatible storage containers @ 25°C in a well ventilated place , protected from light .

H<sub>2</sub>O<sub>2</sub> should not be stored in an unvented container

### Notes for common storage

Keep away from combustible materials and sources of ignition

### Requirements for storage rooms and containers

Close containers in such a way to enable internal pressure to escape

### First aid measures:

- After inhalation: Fresh air. Summon doctor.
- After skin contact: Wash off plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing and shoes promptly and thoroughly.
- After eye contact: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately summon eye specialist.
- After swallowing : Make victim drink plenty of water (if necessary several liters), avoid Vomiting (risk of perforation!). Immediately summon doctor. Do not Attempt to neutralize.

### Advice:

Consulting service

We offer our customers consulting services in questions of application technology to the best of our knowledge within the framework prevailing circumstances. Information and recommendations given by us are without obligation.

If you have any further questions please contact the competent staff in the Hidrojen Peroksit A.Ş. responsible for you.

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