

TABLE 1 REQUIREMENTS FOR HYDRAZINE HYDRATE

(Clause 3.2)

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHODS OF TEST, Ref to
(1)	(2)	(3)	(4)
i)	Purity (as hydrazine hydrate), percent by mass, <i>Min</i>	80	Appendix A
ii)	Relative density, 20°C/20°C, <i>Min</i>	1.05	IS : 3025 (Part 12)-1983*
iii)	pH of 1 percent solution at 20°C, <i>Min</i>	10.5	IS : 3025 (Part 11)-1983†
iv)	Boiling range	115 to 119°C	IS : 5298-1983‡
v)	Colour, Hazen Units, <i>Max</i>	10	IS : 3025 (Part 4)-1983§
vi)	Residue on evaporation, percent by mass, <i>Max</i>	0.01	10 of IS : 3025-1964
vii)	Ash content, g/100 ml, <i>Max</i>	0.003	11 of IS : 3025-1964
viii)	Ammonia content (as NH ₃), <i>Max</i> , percent by mass	0.3	5 of IS : 2488 (Part 4)-1974¶
ix)	Iron (as Fe), ppm, <i>Max</i>	5	32 of IS : 3025-1964
x)	Copper (as Cu), ppm, <i>Max</i>	5	36 of IS : 3025-1964
xi)	Silica (as SiO ₂), ppm, <i>Max</i>	5	30 of IS : 3025-1964
xii)	Chloride (as Cl), ppm, <i>Max</i>	5	24 of IS : 3025-1964
xiii)	Sulphates (as SO ₄), ppm, <i>Max</i>	5	21 of IS : 3025-1964
xiv)	Water insoluble matter, percent by mass, <i>Max</i>	0.005	Appendix B

*Methods of sampling and test (physical and chemical) for water and waste water: Part 1 2 Density (*first revision*).

†Methods of sampling and test (physical and chemical) for water and waste water: Part 11 pH Value (*first revision*).

‡Method for determination of distillation range and of distillation yield (*first revision*).

§Methods of sampling and test (physical and chemical) for water and waste water: Part 4 Colour (*first revision*).

||Methods of sampling and test (physical and chemical) for water used in industry.

¶Methods of sampling and test for industrial effluents, Part 4.

4.2 Marking — The containers shall be marked with the following:

- Name of the material;
- Net volume or mass;
- Batch number;
- Name of the manufacturer or his registered trade-mark, if any; and
- Suitable cautionary note as follows:

NOTE — It has been known that hydrazine hydrate is likely to have some carcinogenic properties. Hydrazine hydrate as a product should not be used in boilers, the steam from which will be used in a process industry, processing food and/or skin products.

NOTE:- Test report to be obtained from NABL accredited lab/ govt approved labs and it should contain the above parameters.

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