

## **i** GENERAL DESCRIPTION

Hydrochloric acid is a colorless to greenish-yellow liquid with a pungent odor. Mix in any proportion with water, acetic acid, ethyl alcohol, chloroform, acetone, etc. Hydrochloric acid is a strong acid and at the same time a very stable compound. Under the action of heat (above 1500°C) it decomposes into hydrogen and chlorine.

## **Q** TECHNICAL QUALITY CONDITIONS

No.	Properties	U.M.	Admissibility conditions
1	Appearance	-	clear liquid
2	Color	-	slightly yellow to greenish yellow
3	Hydrochloric Acid content (HCl)	%	min. 33
4	Free chlorine (Cl <sub>2</sub> )	-	missing
5	Iron content (Fe)	%	max. 0.002
6	Sulfur dioxide content (SO <sub>2</sub> )	%	max. 0.01
7	Sulfuric acid content (H <sub>2</sub> SO <sub>4</sub> )	%	max. 0.02
8	Arsenic (As)	-	missing

## **flask** USES

- in chemical industry at hydro-chlorination reaction
- in the manufacture of dyes, medicinal products, fertilizers, resins and organic salts
- in metallurgical industry for pickling
- in power stations for treatment of water needed for thermal boilers, for regeneration of ion exchange resins
- in sugar industry for animal charcoal regeneration

## **box** PACKING

- in anti-corrosive protected steel railway/road tankers
- in containers from material resistant to the action of the product, with metal reinforcement, stored on pallet – eco-bulk, ADR approved
- other types of packing resistant to the action of the product, ADR approved

## **house** STORAGE

Product is stored and kept in anti-corrosive protected tanks or in its original package, tightly closed; the storage area must be proper ventilated, protected against heating sources and separately from incompatible substances

## **truck** TRANSPORT

- transport is carried out through anti-corrosive protected railway/ road tankers
- transport in containers and other vessels resistant to the action of the product is carried out with motor vehicles approved by ADR, separately from incompatible substances