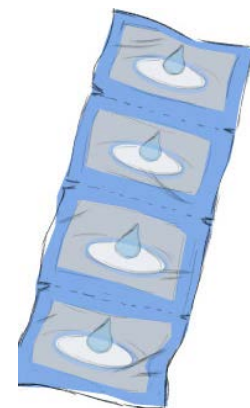


Chlorine (NaDCC Tablets)

Source Protection	Safe Transportation	Sedimentation	Filtration	Disinfection	Safe Storage
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What is it?

Chlorine is a popular chemical used to disinfect drinking water. It forms hypochlorous acid when added to water. This acid reacts with microorganisms, inactivating them. NaDCC, also known as sodium dichloroisocyanurate, is one form of chlorine used for disinfection. NaDCC tablets of various strengths are produced and sold around the world.



Performance

Microbiological Effectiveness:

Parameter	Effectiveness
Bacteria	Very Effective (>99%)
Viruses	Very Effective (>99%)
Cryptosporidium (Protozoa)	Not Effective (<80%)
Ascaris (Helminth)	Not Effective (<80%)

Other Parameters

Not effective for chemical contaminants or turbidity.

Source Water Requirements

Turbidity, organic matter, pH, and temperature affect how well chlorine works. When possible, settle or filter turbid water before using chlorine. Source water should have low turbidity and pH of 5.5–7.5.

Capacity

Tablets are dosed to treat specific volumes, ranging from 1–2,500 L. Treatment time is at least 30 minutes.

Lifespan

Shelf life is five years in strip packs and three years in tubs.

Ease of Use & Acceptability

Operation & Maintenance

User adds an appropriate dose (determined by manufacturer's instructions), stirs or shakes the water, and waits for at least 30 minutes.

Repair & Replacement

New tablets must be purchased before the user runs out. Tablets should be protected from exposure to temperature extremes or high humidity.

User Considerations & Preferences

Users must follow manufacturer's instructions to ensure effective treatment. An ongoing supply chain is needed for replacement tablets. Some users do not like the taste or smell of chlorine.

Feasibility

Availability

NaDCC tablets are produced and sold in many countries by different manufacturers. One example is Aquatabs (produced by Medentech). Tablets are difficult to produce locally but can be bought in bulk and packaged locally.

Cost

Varies, depending on manufacturer.

Size & Weight

Very small and easy to transport.

More Information

Details and references: www.hwts.info/products-technologies/a4b9ded7/chlorine-nadcc-tablets

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