



The power of O_2 and acidification combined !

CID 2000™

- removes the biofilm
- removes scale
- is equipment friendly
- proved "*the greatest reduction in microbial presence*" (*)

(1 Ref "Evaluation of different products used for cleaning drinking water systems", A.G. Hancock, J.G. Hughes and Susan E. Watkins, University of Arkansas, International Poultry Scientific Forum, Atlanta, Jan. 22nd 2007)

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The power of O₂ and acidification combined!

● REMOVES THE BIOFILM

biofilm inside water lines is known as a polysaccharide layer (organic matter). It can block the nipples, reduce the pipe volume by 70 to 80 % (*) and hence reduce the water flow from the drinking system considerably. The biofilm can "harbour" a lot of micro organisms. It adversely affects vaccines and vitamins administered through the water.

Simple high pressure flushing will not remove it. Chlorination neither. Oxygenating the lines will indeed.

CID 2000 consists of 20 % stabilised Hydrogen peroxide (H₂O₂) that dissolve in water (H₂O) and oxygen (O₂) . The free gaseous oxygen will "scrub" along the biofilm, release it and dissolve it. A 1:128 (1 oz / gal) dilution will do the job in 12-24 hrs contact time in between Flocks. A 1:50 (2 %) dilution only needs 4 – 6 hours.

Flush abundantly afterwards (1 min for 30 m or 100 ft). In case of heavy contamination : repeat treatment.

● REMOVES SCALE

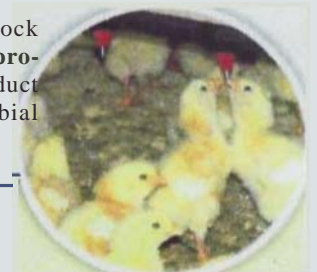
Scale is on inorganic matter. It is mostly consisting of calcium (Ca) and magnesium (Mg) deposits (1. Only acids will remove scale. CID 2000 also consist of 5 % peroxy acetic acids and 10 % acetic acids. Those organic acids will remove scale. Scale can equally block the nipples and reduce the water flow. Scale can also harbour micro organisms. A 1:128 dilution will remove the scale in 12-24 hrs contact time.

● IS EQUIPMENT FRIENDLY

At in-use dilutions (even at 2 % or 1:50) and correctly applied, CID 2000 will not affect your equipment. CID 2000 has been tested and approved by different drinking system manufacturers. It has equally been tested and approved by a major US mediatator manufacturer.

● PROVED "THE GREATEST REDUCTION IN MICROBIAL PRESENCE"

On the International Poultry Scientific Forum, Atlanta, Jan 22nd 2007, **Prof. Dr. Susan** Watkins, A. G. Hancock and J. G. Hughes from the University of Arkansas, Fayetteville presented a paper "Evaluation of different products used for cleaning drinking water systems". CID 2000 was dosed at 2 % , a competing oxidising product at 3 % (or 50 % more). The conclusion of the paper is " CID 2000 had the greatest reduction in microbial presence".



Reaches the end of the line

Field trials from Dr. Susan Watkins show that the highest # of CFO s is found at the end of the line. That's also where the biofilm (and scale build up) are often the biggest. That's also where the water flow is often at it's lowest (where the nipples are most clogged). The European "Cherie Vert" laboratory concludes : "after 19 hours, at a 2 % dilution, in contact with organic matter, there was still > 80 % of the O₂ available". This guarantees that the free O₂ from CID 2000 will reach the end of the line, when correctly applied.

Is completely biodegradable

CID 2000 decomposes in O₂, H₂O and CO₂, 3 natural elements. The hydrogen peroxide is not stabilised with silver or any other (heavy) metal. So it leaves no residues whatsoever.

CID 2000 application :

Dining down time administer a 1:128 dilution through a mediatator and leave it in the lines for 12 -24 hrs. Ideally, trigger the nipples for one second (per 10 ' section) so the solution can get through the nipple, to the under pin. Flush abundantly afterwards.

CID 2000 : composition :

20 % stabilised hydrogen peroxide
5 % peroxy acetic acid
10 % acetic acid

Plus : stabilising agents, buffering agents, sequestering agents, wetting agents

CID 2000 : incompatibilities :

Never mix with any other product Never mix with chlorinated products, or toxic chlorine gas will be released. Never mix with life vaccines in drinking lines, or they can be killed,

CID 2000 stability and traceability guaranteed :

CID 2000 is manufactured by CID LINES , an ISO 9001:2000 and GMP certified manufacturer. The shelf life is 2 years. The lot # allows for traceability.

Safety precautions :

When handling, storing or manipulating the product always wear protective clothing and comply with OSHA regulations. Always keep the lid up. Never store in heat or sun shine. Always keep an MSDS at hand.

(*) source : Dr. Susan Watkins, University of Arkansas, Fayetteville



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