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A-SOX™ The Easiest Deep Plume and Routine Deployment of Integrated Carbon, ZVI and Nutrients

Affordable and effective socks for stimulating anaerobic biodegradation in ground water wells.

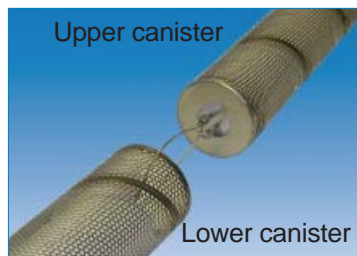
Applications:

Stimulation of anaerobic biodegradation of groundwater contaminants using EHC®. EHC is deployed in ground water wells with the A-SOX™ delivery system. EHC is a proprietary field-proven compound that contains a long-term source of controlled-release carbon, ZVI and nutrients. Exhausted socks are easily replaced with new ones to continue treatment. Organic constituents amenable to anaerobic biodegradation processes include:

- Chlorinated Solvents
- Energetics
- Pesticides / Herbicides

Benefits of EHC®-A

- ❖ Significant cost savings due to ISCR approaches that promote biotic, abiotic, thermodynamic and chemical degradation mechanisms.
- ❖ Readily biodegradable H donor.
- ❖ Estimated longevity of 3 to 6 months.
- ❖ Unique mode of action does not require use of specialty microorganisms.



Detail showing how two canisters are linked. Up to three canisters may be suspended in line to lengthen the active zone.



Detail showing the 4-in sock protruding slightly from the top of the canister.

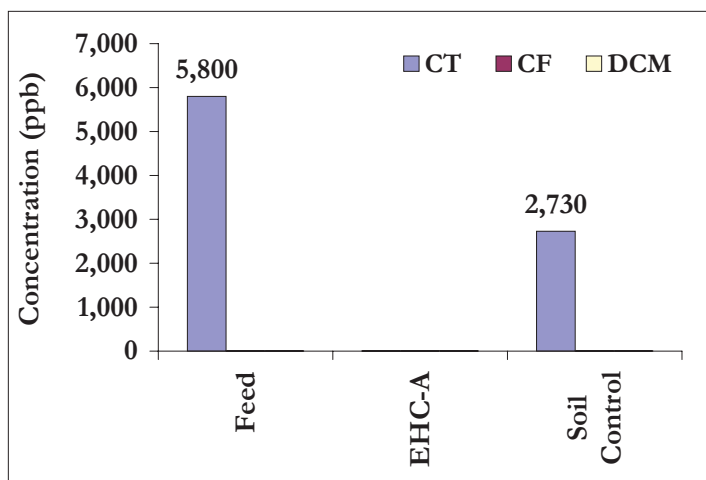


Benefits of A-SOX™ Delivery System

- ❖ All the field proven benefits of EHC.
- ❖ Substantial time savings in the field.
- ❖ Reusable stainless steel canisters are easy to insert and retrieve from the well. Recover the canister cost in your first installation!
- ❖ Ease of determining the exact depth at which the product is deployed.
- ❖ Socks and canisters available for 2" and 4" wells.
- ❖ Up to three canisters may be suspended in-line to lengthen the active zone.
- ❖ Even distribution of the active material over the length of the canister(s) because the socks do not collapse or bunch up.



EHC-A Treatment of Carbon Tetrachloride



ORDERING INFORMATION

TR-419	2-in x 3-ft A-SOX (pail with 5 socks*)	13 lb
TR-411	2-in Canister (stainless steel, reusable)	1.5 lb
TR-418	4-in x 3-ft A-SOX (pail with 3 socks*)	28 lb
TR-413	4-in Canister (stainless steel, reusable)	3 lb

Accessories:

TR-416	Nylon-covered stainless-steel suspension cable with swaged cable loop at one end (sold per ft)	
TR-414	2-in Well Cap with Cable Restraint	0.6 lb
TR-415	4-in Well Cap with Cable Restraint	1.2 lb
602528	Pail Opener	0.5 lb

(*) Only sold in pail quantities.

Notes:

- A-SOX is non-returnable and non-refundable.

EHC® A-SOX™ FAQs

- What are the main application scenarios for A-SOX?** The A-SOX systems are most conducive to physically challenging situations where a readily biodegradable carbon source and reduced iron are needed to induce in-situ chemical reductions (ISCR) of targeted compounds. For example, A-SOX can be used in deep well settings, PRBs that require routine amendment, and strategic placement into "problem" well locations.
- What contaminants are amenable to A-SOX treatment?** Chlorinated solvents, chlorinated pesticides, and energetics are the primary targets.
- How much do they cost?** 2-inch A-SOX cost \$120 and 4-inch A-SOX cost \$160. Volume discounts may apply.
- Why should I use the A-SOX technology?** It's a better product and the superior design and ease of application will immediately translate into greatly reduced field time and frustration = reduced project cost.
- Is it easy to switch over to the A-SOX technology?** Yes. EHC-A has been accepted by numerous state regulatory authorities, and has been employed throughout the USA and Europe.
- How long do they last?** A-SOX generally have longevity of approximately 250 days, but replacement on a longer or shorter schedule can be optimized based on monitoring results. Various site-specific factors will influence the effective lifetime of the A-SOX cartridge; mainly i) constituent type and concentration, and ii) hydro-geological features (groundwater flow rate, Eh, pH, temperature).
- Do I need to install new wells?** No. The A-SOX technology is designed to fit into standard 2-inch and 4-inch diameter groundwater monitoring wells. The canisters have a nominal outside diameter of 1.75 inches for the 2-inch size and 3.5-inches for the 4-inch size.
- Where are they primarily used?** The EHC A-SOX can be used in existing or newly-installed wells, either in natural or forced gradient flow systems. For example, existing hotspot wells can be treated, or deep, dilute, or fractured system plumes can be treated by A-SOX placed within the capture zone of a groundwater recirculation well or other forced gradient system.

SPECIFICATIONS

Material:

Active compound	EHC-A Contains organic carbon and soluble FE + ZVI.
Sock	non-woven polyethylene fabric, needle punched.
Canister	Stainless steel, type 304, perforated.

Dimensions, Weight and Volume

Size for A-SOX sock (dry) and canister

	<u>Sock</u>	<u>Canister</u>
2 in	1.5 in x 36 in approx.	1.75 in x 36 in approx.
4 in	3.0 in x 36 in approx.	3.5 in x 36 in approx.
Canister length*	2 in: 3 ft 4 in	4 in: 3 ft 6 in

*with suspension loop and link extended

Total Ship. Volume

Pail	2 ft ³	Note: pail only is 12-in dia. x 16-in H
2-in canister	0.34 ft ³	(4 x 4 x 37 in)
4-in canister	0.77 ft ³	(6 x 6 x 37 in)

Weights

Nominal weight per dry sock:

	<u>EHC-A content only</u>	<u>Full sock</u>
2-in sock	1.75 lb	1.95 lb
4-in sock	7.25 lb	8.05 lb

Total Ship. Wt (dry)

Pail w/ five 2-in socks	13 lb
Pail w/ three 4-in socks	28 lb
2-in canister (empty)	1.5 lb
4-in canister (empty)	3 lb