

Manufactured by:



Developed by:



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O-SOX™

The Easiest Downwell Deployment of Dissolved Oxygen

Affordable and effective oxygen-releasing socks for stimulating aerobic biodegradation in ground water wells.

Applications:

Stimulation of aerobic biodegradation of groundwater contaminants using EHC-O™. EHC-O is deployed in ground water wells with the O-SOX™ delivery system.

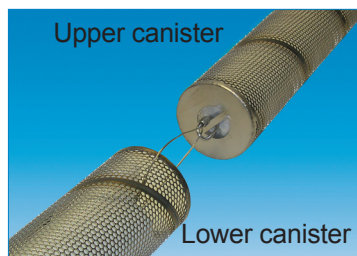
EHC-O is a proprietary field-proven compound that contains a long-term source of dissolved oxygen and nutrients. In the well, EHC-O reacts with water to release oxygen slowly. Exhausted socks are easily replaced with new ones to continue treatment.

Organic constituents amenable to aerobic biodegradation processes are:

- Petroleum Hydrocarbons
- Light polycyclic aromatic hydrocarbons (PAHs)
- BTEX

Benefits of EHC-O™

- ❖ Significant cost savings realized through the use of EHC-O due to its higher oxygen release rate and lower price.
- ❖ Contains nutrients. pH-buffered to reduce self-encapsulation.
- ❖ Estimated longevity of 3 to 6 months.



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 O-SOX™ Delivery System

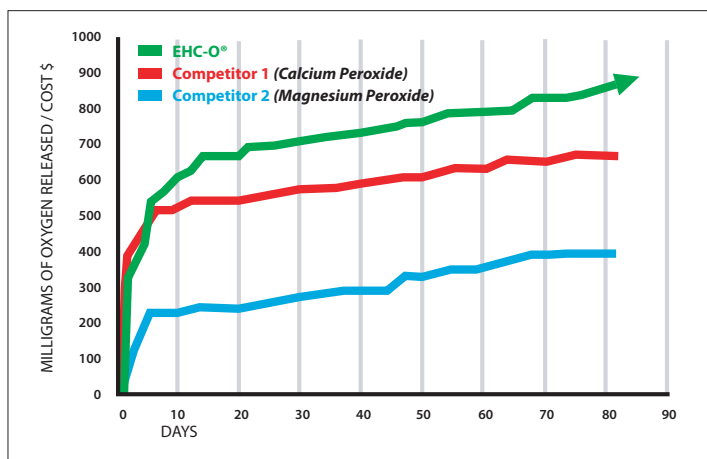
- ❖ All the field proven benefits of EHC-O.
- ❖ Substantial time savings in the field.
- ❖ Reusable stainless steel canisters are easy to insert in and retrieve from the well. Recover the cost of the canister in your first installation!
- ❖ Ease of determining the exact depth at which the product is 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.





OXYGEN-RELEASING SOCKS

Comparative Rates of Oxygen Delivery and Costs



EHC-O™ O-SOX™ FAQs

- What are the main differences between O-Sox and comparable market alternatives?** EHC-O O-SOX contains a well-buffered source of controlled release oxygen plus inorganic nutrients (mainly nitrogen) that can accelerate the biodegradation of various organic compounds and enhance certain natural attenuation processes. In addition, the O-SOX technology is a superbly well designed stainless steel canister and sleeve system which greatly simplifies installation, removal and replacement.
- Do I need microbial inoculants?** In most cases, the naturally occurring (indigenous) microorganisms are well adapted to the organic constituents of interest and inoculants are not required.
- What contaminants are amenable to O-Sox treatment?** The rate and extent of removal of all organic compounds that are biodegraded under aerobic conditions are usually enhanced via the addition of oxygen and inorganic nutrients. Petroleum-based aromatic (e.g., benzene, toluene, xylene, phenol) and aliphatic hydrocarbon mixtures (e.g., gasoline, heating oil, Diesel fuel, jet fuel, kerosene) are primarily targets; lightly chlorinated ethenes (vinyl chloride), MTBE, dioxane, pentachlorophenol, and many other compounds are also potentially amenable to O-Sox treatment.
- How much do they cost?** O-SOX cost about 25% less than market alternatives.
- Why should I use the O-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 O-Sox technology?** Yes. EHC-O has been accepted by many state regulatory authorities and it has been employed throughout the USA and Europe.
- How long do they last?** O-SOX are typically replaced every 3 to 6 months. Various site-specific factors will influence the effective life-time of the O-SOX cartridge; mainly i) constituent type and concentration, and ii) hydrogeological features (groundwater flow rate, Eh, pH, temperature).
- Do I need to install new wells?** No. The O-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.
- What is the oxygen delivery rate?** The rated delivery is at least 15 lb of oxygen per 100 lb of EHC-O, after 200 days.

ORDERING INFORMATION

TR-410	2-in x 3-ft O-SOX (pail with 5 socks*)	13 lb
TR-411	2-in Canister (stainless steel, reusable)	1.5 lb
TR-412	4-in x 3-ft O-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:

- Because O-SOX contains an oxidizing substance, it may be shipped only by motor freight.
- O-SOX is non-returnable and non-refundable.

SPECIFICATIONS

Material:

Active compound	EHC-O™ calcium-peroxide based compound. Contains inorganic nutrients and a buffering agent.	
Rated delivery	At least 15 lb of oxygen delivered per 100 lb of EHC-O product after 200 days.	
Sock	non-woven polyethylene fabric, needle punched.	
Canister	Stainless steel, type 304, perforated.	

Dimensions, Weight and Volume

Size for O-SOX sock (dry) and canister

	Sock	Canister
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 ft³	Note: pail only is 12-in dia. x 16-in H
2-in canister	0.34 ft³	(4 x 4 x 37 in)
4-in canister	0.77 ft³	(6 x 6 x 37 in)

Weights

Nominal weight per dry sock:

	EHC-O content only	Full sock
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