



# ENDURE IX

## Phosphate Ester Filter

Removes All Acids | Fill-For-Life Phosphate Ester Fluid



MAXIMIZING ASSET LIFE THROUGH TECHNOLOGY

# REMOVE DEGRADATION PRODUCTS & EXTEND THE LIFE OF YOUR FLUID

## FILL-FOR-LIFE PHOSPATE ESTER

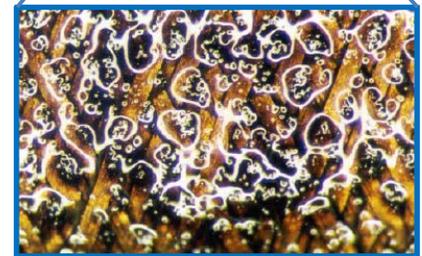
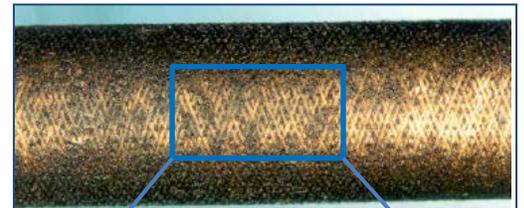
Keep your fluid clean and dry

Filtration is a critical step in phosphate ester maintenance. Endure IX is a proprietary technology that removes all forms of phosphate ester degradation products. In addition to all types of acids, the absorption media removes phenolic alcohols which are responsible for varnish formation in EHC systems.



## ENDURE IX BENEFITS

- 💧 Removes ALL acids (stronger and weaker)
- 💧 Removes varnish forming byproducts
- 💧 Highest acid capacity
  - 💧 10x the performance of Fuller's Earth
  - 💧 2x the performance of other IX filters
- 💧 Increases resistivity
- 💧 Removes all dissolved metals
- 💧 Longest filter life on the market
- 💧 Enables a Fill-For-Life Phosphate Ester Fluid
- 💧 Measure phenolic acid reduction with RULER™

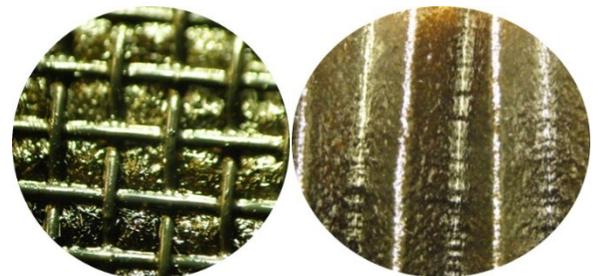


*Servo-Valve Deposits*

## THE RESULTS ARE CLEAR...

Endure IX performance versus other technologies:

	In-Service Fluid	Fuller's Earth	Competitive IX Media	ENDURE IX
TAN	1.29	1.12	0.39	0.01
MPC	59	51	33	14
Resistivity	0.5	0.3	0.36	12.9
Ca	10	17	6	0
Mg	3	3	2	0
Na	12	23	0	0



*Premature Filter Clogging*

# FILL-FOR-LIFE PHOSPHATE ESTERS

## FILL-FOR-LIFE

### Endure IX + Stealth EHC + VITA VOLT

System cleanliness is restored with no outage requirements. Fluitec provides Endure IX to bring the fluid acidity back to ideal conditions, VITA VOLT to remove micro-dieseling byproducts and Stealth EHC to remove existing moisture and prevent any further water contamination.



## HOW IT WORKS

Fluitec provides the optimum blend of media to target specific contaminants. There are media that specifically remove stronger acids, ones that remove weak acids (phenolic alcohols and varnish-forming molecules) and media that removes dissolved metals from the fluid. As the fluid makes contact with the blended Endure IX media the process of physisorption removes the contaminants. It is recommended to install Stealth EHC along with the Endure IX for optimum performance.

## Stealth™ EHC

Our StealthEHC system blankets your reservoir headspace with our super-dry clean air. A low pressure air purge in the headspace accomplishes two important tasks simultaneously: It extracts moisture from the fluid while excluding other contaminants from getting in the system. The result is exceptionally clean, dry oil. The system is inexpensive to install, has no moving parts or electrical connections, and requires no maintenance. Quite simply, the Stealth EHC is the highest value contamination control technology you will install at your plant.

## VITA VOLT

Using high voltage parameters and fluid flow rates, VITA VOLT units remove hard particles down to nanometer sized soot particles from most non-detergent fluids. Specifically engineered for faster removal of micro-dieseling byproducts than competing units, VITA VOLT's collector elements maximize high voltage electrophoresis and di-electrophoresis more efficiently than any other collector element on the market.

*Endure IX media at work*



*Acid levels lowered, Resistivity increased, metals and varnish molecules removed*



*Stealth EHC*



*VITA VOLT*

# ENDURE IX SPECIFICATIONS

## PHOSPHATE ESTER ELEMENT SELECTION GUIDE

Endure IX Element P/N	Outer Diameter	Length	Inner Diameter	Media Weight (lbs)	Quantity / Case
CC-ESP-FLTR-PE-KIT-CRN*	7"	18"	2.4"	11	4
CC-ESP-FLTR-PE-KIT-NU**	6"	32"	1.55"	15	1
CC-ESP-FLTR-PE-618-78	6"	18"	2.875"	9	4

\*Endure IX Elements fit all Hiliard-Hilco 7x18 filters ZXCO, CN and CRN

\*\*Endure IX Elements fit all Nugent phosphate ester 6x32 filter

### Endure IX Applications

- 🔧 Power Plant EHC systems
- 🔧 Phosphate Ester lubricating oil
- 🔧 Naval Hydraulic Equipment
- 🔧 Aircraft Hydraulic Systems



#### PHOSTPHATE ESTER CONDITION & SOLUTION TABLE

Condition	Endure Solution
High Acid	Endure IX restore to rapidly reduce Acids
	Endure IX to maintain low acid levels
Low Resistivity	Endure IX to reduce phenolic alcohols, metals and ionic contaminants
High Particle counts	Endure IX filtration solutions to remove varnish
	Endure IX filtration solutions to return systems to servo quality particle counts
High Metals	Endure IX adsorbs metals leached due to traditional technologies
High water levels	Stealth EHC to rapidly and cost effectively eliminate moisture



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