



# US PETROLON

## LUBRICATION & FILTRATION CATALOG

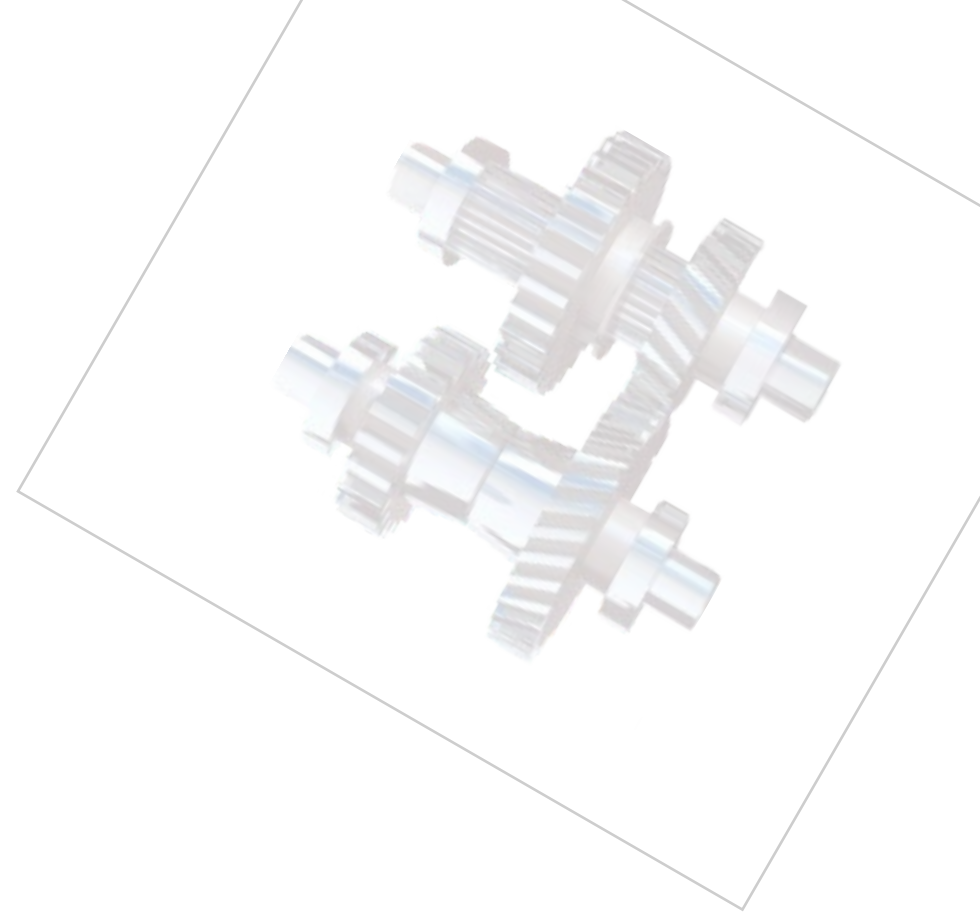
[www.uspetrolon.com](http://www.uspetrolon.com)



IMPROVING MACHINERY LIFE  
WITH  
SPECIALTY LUBRICANTS  
AND  
FILTRATION

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## about us

### The Company

US Petrolon Industrial (USPI) has been custom designing and filtering fluids of all types for over 30 years. Our knowledge and practical experience ensures that the USPI fluids and ultra-fine filtration in your Oil Filtration & Lubrication Program will be the finest available with today's technology.

### The Program

The USPI Oil Filtration & Lubrication Program uniquely combines our expertise and service, our high quality lubricants, and our ultra-fine particulate and water-removing depth filtration systems to maximize your lubricant and equipment life. USPI programs have been proven to reduce downtime, decrease labor and disposal costs, and maximize asset preservation.

### The Service

Service is the cornerstone of our business. We will partner with you to create a custom-tailored oil filtration & lubrication program and assist you with managing and sustaining that program. Contact us to arrange a plant audit and inspection of your existing operation at no charge.





# LUBE ROOM

USPI's Oil Defender Lube Room Solution simplifies oil storage and distribution while cleaning and drying your fluids before they reach your equipment.

## US Petrolon Lube Room Solution

oil storage + transfer & dispensing + depth filtration systems + depth filter elements





# Oil Defender Lube Room Solution

Combined storage and filtration systems provide the best solution for an efficient lube room to dispense fluids that are clean and dry from the start.



## USPI Storage Totes

The Oil Defender system utilizes stainless steel totes with color-coded start-stop boxes for efficient storage that can be stacked vertically or horizontally. You can easily view oil levels with either option.

### SPECIFICATIONS:

- Stainless valves and piping
- Large clean-out port
- Sloped floor to pickup point
- Desiccant breather port

**SS SIZES:** 40 gal • 70 gal • 120 gal • 165 gal  
custom sizes available



## USPI Filtration Systems

Even new oil can be dirty. USPI's filtration systems (one per fluid/tote) prefilter your lube room fluids, removing wear particles and moisture before the fluid enters your equipment.

### SPECIFICATIONS:

- Chrome-plated filter housing
- Stainless steel ball valves
- Steel mounting bracket
- Drain & air bleed valves
- Stainless steel piping
- Pressure gauges to monitor element pressure differential
- Pressure relief valve
- Canister heater
- Color-coded for fluid management



## USPI Depth Filter Elements

US Petrolon's depth filter elements utilize a patented non-channeling element design that improves filtration by forcing oil through a wound filter media, preventing fluids from bypassing the filter element. This allows the USPI elements to remove water as well as contaminants 1-3 or 3-10 microns and greater (depending on type) while protecting the fluid's additive package.

### SPECIFICATIONS:

- Removes solid particles 1-3 or 3-10 microns and above
- Holds up to 12-14 lbs of solid particulate per element
- Holds up to 5 qts of water per element

# Oil Defender Lube Room Solution

Combined storage and filtration systems provide the best solution for an efficient lube room to dispense fluids that are clean and dry from the start.



## USPI Oil Defender System

- Dedicated filtration system for each fluid (per tote)
- Drum-to-tote & Tote-to-drum operation
- Color-coded fluid management
- Desiccant breather and heater (optional)
- Secondary containment (optional)
- Sturdy metal frame with drip trays
- Simple installation



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- Holds up to 5 qts of water per element





## USPI Oil Defender System Manifold

The manifold is a centrally located, simple, color-coded method of transferring and filtering fluids throughout the system.

### SPECIFICATIONS:

- Stainless tubing, ball valves, and fittings
- Color coded fluid management
- Dedicated pump and motor
- Start/stop station
- Fluid sampling
- Clean, drip-free work space
- OPTIONAL:
  - Flat face quick connections
  - Immersion heater



## USPI Oil Defender Transfer Container

Transfer oil from tote to equipment without outside air contamination with this sealed oil transferring unit.

### SPECIFICATIONS:

- Color coded fluid management
- Sealed from outside air
- Hand pump and pour spout options
- OPTIONAL: quick connect fill port

**SIZES:** 2gal 3gal 4gal



## USPI Oil Defender Drum Transfer

Provides a safe, efficient, and contamination-free method to transfer oil from drums to tanks or for filtration. Color-coded.

### SPECIFICATIONS:

- All metal construction works with drums and totes
- Dedicated per tote/fluid to prevent cross-contamination
- Desiccant breather port
- Includes: 0.75" male quick connect oil return port; 1.25" x 8' oil supply hose; quick connect inlet & outlet ports
- OPTIONAL: 1" male quick connect pickup; flat face quick connections



## USPI Oil Defender Canister Heater

Provides optimal oil temperatures for ultra-fine water-removing depth filtration of your lube room fluids.

### SPECIFICATIONS:

- Uniform heat distribution
- Exceptional durability
- Redresses oil resistance to flow



## USPI Oil Defender Dispensing Nozzle

The dispensing nozzle attaches to the Oil Defender System Manifold (above) to provide a safe, clean and efficient way to dispense oil without outside air contamination.

### SPECIFICATIONS:

- All metal construction
- Custom colored fluid management
- Includes 18" hydraulic hose
- 0.75" male quick connect receiver port
- OPTIONAL: Flat face quick connections for drip-free connections



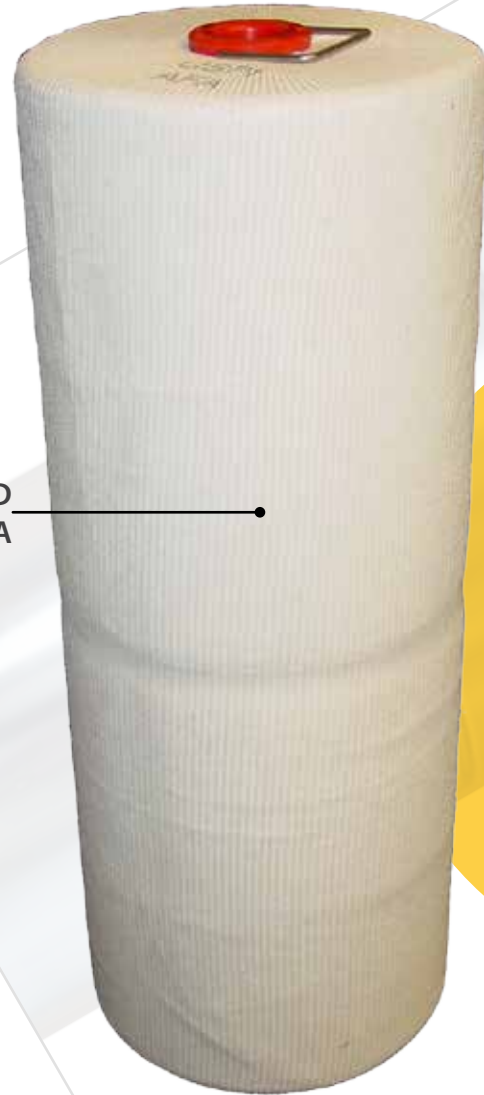
## USPI Oil Defender Immersion Heater

Increases gear oil filtration efficiency by maintaining optimal temperatures for ultra-fine water-removing depth filtration.

### SPECIFICATIONS:

- Maintains oil temperatures during filtration
- Increases gear oil pumpability
- Allows for easier/quicker oil dispensing

PATENTED WOUND  
FILTER MEDIA



### USPI AFA-3 Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 1-3 $\mu$  and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

## US Petrolon AFA-3 Depth Filter Element

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 1~3 microns and greater in the fluid.

#### APPLICATIONS:

AFA-3 elements can be used with mineral-based, semi-synthetic and synthetic lubricants for:

Air Compressors • NH3 Compressors  
Vacuum Pumps • Hydraulic Systems  
Turbines • Engines

**VISCOSITIES:** 22-100 ISO, based on fluid type

#### RETURN ON INVESTMENT:

Depth filtration with USPI AFA-3 elements provide a rapid return on investment by:

- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

USPI also offers **OEM Replacement Filters** that meet or exceed manufacturer specifications at significantly lower costs



## USPI Separators

US Petrolon separator filters are the simple way to avoid contamination, keeping compressed air clean and oil-free in your expensive equipment. Our coalescing separator filters provide the highest level of clean, compressed air with a minimum loss of energy (pressure drop).

#### SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most separators
- Extended interval changes
- 99.97% efficiency @ .30 microns



## USPI Coalescers

Through the selection of appropriate coalescing materials and sealing methods, US Petrolon's advanced line of coalescing filters guarantees your refrigeration compressor systems a rare blend of exceptional performance, proven reliability and uncommon value allowing your equipment to operate correctly with minimal operational upkeep.

#### SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most coalescers
- Extended interval changes
- 99.97% efficiency @ .30 microns



## USPI Exhaust Filters

Oil mist is generated by vacuum pumps for a variety of reasons. The most common cause is operating the pump by pumping against an "open" or leaky system. US Petrolon exhaust filters are optimized to suit all operating conditions of the vacuum pump and ensures oil-mist-free exhaust gas (degree of separation over 99.9%) even at high intake pressures and when pumping vapors.

#### SPECIFICATIONS:

- All metal frame (core & end caps)
- Specialized sealing
- 30% more media than most exhaust filters
- Extended interval changes
- 99.97% efficiency @ .30 microns



PATENTED WOUND  
FILTER MEDIA



### USPI GO Filter Element

- Removes moisture (up to 5 qts per element)
- Removes solid particles 3-10 $\mu$  and above (up to 12-14 lbs per element)
- Protects oil additive package
- High temp (350°F) option available
- Use with USPI filtration systems

## US Petrolon GO Depth Filter Element

US Petrolon's depth filter elements are the best way to improve equipment cleanliness levels. US Petrolon utilizes a patented non-channeling element design. This improves filtration by forcing oil through a wound filter media, thus preventing fluids from bypassing the filter element. As a result, US Petrolon filters remove virtually all contaminants 3-5 microns and greater in the fluid.

#### APPLICATIONS:

GO elements can be used with mineral-based, semi-synthetic and synthetic gear oils.

**VISCOSITIES:** 220-680 ISO gear oils

#### RETURN ON INVESTMENT:

Depth filtration with USPI GO elements provide a rapid return on investment by:

- Reducing oil purchases
- Increasing equipment efficiencies
- Lowering maintenance labor time and cost
- Increasing OEM filter life
- Extending equipment life

use your USPI GO Depth Filter Elements with...



### USPIFLUIDS

USPI offers a complete line of custom-formulated synthetic and semi-synthetic lubricants for a wide range of industrial applications, from ammonia and air compressors to vacuum pumps, hydraulic systems, gearboxes, and other pumps and presses. H-1 food grade and non-food grade options are available.



### OILSAMPLING

USPI recommends comprehensive quarterly oil analysis with our industrial lubricants. Independent oil analysis will help you make condition-based decisions in a predictive-proactive maintenance program.



### USPIUNITS

USPI filtration systems can be installed on any oil-lubricated equipment to provide cost savings by lowering maintenance costs, reducing oil purchases and disposals, and preserving your assets.





us petrolon industrial

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