



Opteon™ Sion

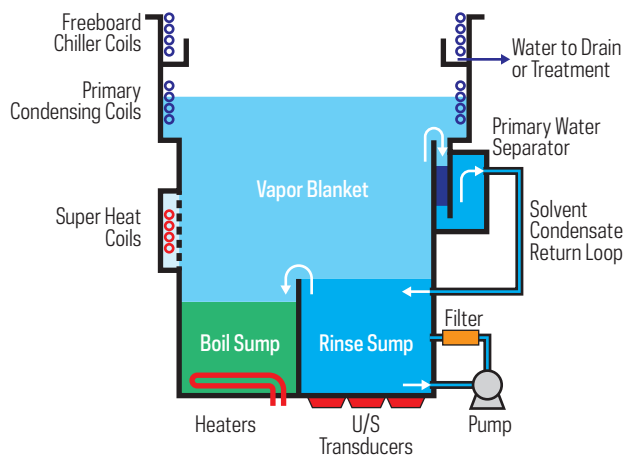
Specialty Fluid

For Use in Vapor Degreasing

Technical Information

What is vapor degreasing?

Vapor degreasing is a precision cleaning technique used to dissolve greases and remove soils from metal parts. Over the course of the manufacturing process, parts ranging from ball bearings to printed circuit boards become contaminated. Manufacturers employ vapor degreasing to ensure that performance, quality, reliability, and aesthetics are not impacted by these impurities.



What types of industries use vapor degreasing, and where is it used?

- Automotive
 - Fuel injection, anti-lock braking systems, compressors, relays, sensors, switches
- Aerospace
 - Fuel injection, landing gear, oxygen systems, printed circuit boards

- Medical Devices
 - Oxygen systems, eyewear, catheters, surgical devices/needles, implants
- High-End Consumer Goods
 - Watches, jewelry, camera lenses, flat panel displays, optical assemblies
- Electronics/Semi-Conductors
 - Printed circuit boards, electrical contacts, cables, optical fibers, silicon wafer front opening unified pods (FOUPs), and flip chips

What problems do manufacturers face when it comes to vapor degreasing?

The biggest challenge facing manufacturers who utilize vapor degreasing is the need for a safe and sustainable solvent. The most commonly used solvent, n-Propyl Bromide (nPB), poses a safety risk to workers upon exposure, and regulations have banned the use of HCFCs like AK-225. Many manufacturers are now looking for solutions that are safe for their employees and the environment, without sacrificing performance.

What is Opteon™ Sion Specialty Fluid, and why are manufacturers converting to it?

Opteon™ Sion Specialty Fluid is a vapor degreasing solvent that is suitable to replace n-propyl bromide across many demanding cleaning applications. Manufacturers are switching to Opteon™ Sion because it provides an excellent combination of environmental, safety, health, and performance profiles that meet the high solvency needs of

the industrial cleaning market. Opteon™ Sion is increasingly chosen for vapor decreasing, because of its industry leading solvency power (KB value), as well as its improved safety and environmental properties. Other benefits of Opteon™ Sion include, but are not limited to:

- Fast drying, increasing productivity
- Compatible with most metals, plastics, and elastomers
- Nonflammable and low toxicity
- Zero ozone depletion potential (ODP)
- Low global warming potential (GWP)

What specific products can Opteon™ Sion Specialty Fluid replace?

- n-Propyl Bromide (nPB)
- Lenium
- EnSolv
- AK-225
- Novec 72DE
- Solstice PF
- TF-113
- Water

For more information on the Opteon™ family of refrigerants, or other refrigerants products, visit opteon.com or call (800) 235-7882.

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