



Tribolube

Aerospace Lubricants



Apollo Australia Pty Ltd
Asia Pacific Exclusive Distributor



Aerospace Lubricants, Inc. compounds a wide range of PFPE oils that are thickened with PTFE. Aerospace Lubricants, Inc. has put together a family of products under the Tribolube name that was designed specifically for the scuba medical, military, and aerospace industry.

TRIBOLUBE 71 Grease is 100% oxygen compatible lubricant. This grease is the chemical clone for ChristoLube MCG111. This grease is good for static and dynamic applications. This grease has a very wide operating range.

TRIBOLUBE 66 Grease is 100% oxygen compatible lubricant. This grease is the chemical clone for ChristoLube MCG129 and 129N. This is best for static. Applications. This could cause a slightly labored breathing in extreme cold conditions.

TRIBOLUBE KO² Solvent formulated to easily clean and remove PFPE greases. Most people simply cannot imagine any easier method for cleaning the grease off. People that have used Tribolube KO² product describe it as "amazing" or a "magic" cleaning system.

TRIBOLUBE EPO² Protecterant was developed for brass. It protects surfaces from surface oxidation, and stops the loss of electrons. The loss of electrons is the cause of the corrosion inside regulators. When applied to brass it will keep it shiny and looking new between servicing intervals.

TRIBOLUBE 2080 silicone grease This grease is **not recommended for oxygen service**. This grease is for those who still use silicone in their SCUBA systems. Also works great as zipper lube or other uses.

For the most part there has been only one choice in Diving for more than a decade. You now have a choice.

We wish to allow the technical divers, dive shop owners, and manufacturers to make these choices with technical information and testimonials not available in the past. The better of the two for extreme conditions (in my opinion) is the (Tribolube 71) lighter viscosity fluid thickened greases for less laboured breathing.

This grease will allow **easier breathing in extreme cold conditions for ice diving and at deeper depths**.

Technical Differences with our Competitors

Information on the differences about the thickeners that make up the PFPE grease

PTFE: Is thickening agent that binds with the oil to make grease.

Size of ChristoLube PTFE particles are 5 Microns

Size of Tribolube PTFE particles is .5

There are a few manufacturers that irradiate the PTFE then Jet Mill it (air milling). It makes the particle friable (brittle) so the PTFE particle will fracture in into smaller particles that are irregular and jagged in structure. They do this in order to try and achieve more surface area for oil uptake.

The Irradiated particle can be heat treated to bake off the residual jagged structure, but if that is not done it tends to react more readily with freshly rubbed metal surfaces aluminium, titanium, and magnesium). This will release LEWIS ACID which in turn can produce hydrogen fluoride gas. It's important to ask supplier of PTFE grease what their manufacturing process is.

The PTFE we use in Tribolube is grown in situ as a crystalline form, and is absolutely not bombarded with gamma radiation as a part of the manufacturing process.

Smaller particles allow more oil take up, the benefits of which are far more effective lubrication of static o'rings and better movement with Dynamic o'rings.

Unlike others, our product will not leave a caking residue over time and is far easier to clean.

Many OEM Companies have switched to Tribolube:

There are approximately 38 manufacturers that are in the process of final testing or mid switch.

Companies who have switched are listed below

Dive Rite, Hollis, Oceanic, Aeris, Romi, Rebreather Lab, Deep Outdoors, Deep Life Ltd., Piranha Dive Mfg, Edge, Steam Machines Inc., Atomic Aquatics Inc, rEvo Rebreathers, Titan Dive Gear, OmniSwivel, Aquatica, Jetsam Technologies (kiss rebreather), Si Tech AB, and Deutsche Unterwasser AG.

**There are several manufacturers of hyperbaric chamber systems as well
Hypertech Inc. ,Sea Long Medical Systems Inc., and WPAFB.**

There is a cylinder manufacturer, Worthington Cylinders that use the grease on the threads of the tank to prevent flash rusting.