

E0900237-v7: Recommended Coolants and Lubricants

The following coolants and lubricants meet the requirements for use on parts intended for the LIGO UHV system.

"Recommended" means: They are fully synthetic, 100% water soluble, and free of sulfur, chlorine, and silicone.

This list is not meant to be exclusive but merely to provide some possible options.

Product Name	Manufacturer's Information
1) G-25J 2) SafeTap Plus 3) Vytron N	ITW Pro Brands 805 E. Old 56 Highway Olathe, Kansas 66061, USA https://www.itwprobrands.com +1 800-241-8334
4) Trim C350 5) Trim 9106	Master Fluid Solutions 501 West Boundary Street Perrysburg, OH 43551-1200, USA https://www.masterfluids.com +1 419-874-7902
6) TC-1 Premium Synthetic Coolant	Trico Corporation 1235 Hickory Street Pewaukee, WI 53072 USA https://www.tricocorp.com +1 262-691-9336
7) Cimtech 310 8) Cimtech 310Z 9) Cimtech 320 10) Cimtech 320Z	CIMCOOL Industrial Products 3000 Disney Street Cincinnati OH 45209, USA https://www.cimcool.com +1 513-458-8100
11) Kool Mist #78 12) Kool Mist #77	Kool Mist 9218 Norwalk Blvd Santa Fe Springs, CA 90670, USA https://www.koolmist.com +1 562-246-0949
13) Crystal Cut 777	Hangsterfer's Laboratories, Inc 175 Ogden Road Mantua, NJ 08051, USA https://www.hangsterfers.com +1 856-468-0216

14) ArrowCool SYN-710	Chem Arrow Corporation 13643 Live Oak Lane Irwindale, CA 91706, USA
15) ArrowCool SYN-722	
16) ArrowCool SYN-730	https://www.chemarrow.com +1 626-358-2255
17) Hocut 767	Houghton International PO Box 930 Valley Forge, PA 19482-0930, USA https://www.houghtonintl.com +1 610-666-4000
18) Anchorlube G-771	Anchor Chemical Company 777 Canterbury Rd Westlake, OH 44145-1418, USA https://www.anchorlube.com +1 440-871-1660
19) GoldenWest 5503	GoldenWest Lubricants, Inc 1937 Mount Vernon Avenue Pomona, CA 91768-3312, USA https://www.gwlinc.com +1 800-540-5823
20) Frigomet 81N	Oemeta, Inc. 5655 West 610 South Salt Lake City, UT 84104, USA https://us.oemeta.com +1 801-953-0134
21) Syn-Tho 3330	Precision Fluids 5230 Brittmoore Houston, TX 77041, USA https://www.precisionfluids.com +1 713-896-0606

Citation: Some of the information on this list comes from a document prepared by Yulin Li [slide 7 of https://uspas.fnal.gov/materials/17UCDavis/Vacuum/USPAS%202017%20Vacuum%20Session%205_4%20Fab_and_Clean.pdf]. A few fluids on that list are not here because the criteria is different from that of LIGO.