



CATEGORY
LUBRICANTS

ZFC LUBRICANT REPORT

2021 LUBRICANT REPORT

3

SILCA
LUBRICANTS

+14

LUBRICANTS
TESTED

1ST

PLACE FOR
HOT WAX/WET LUBE
CATEGORIES

Secret Chain Blend

The LOWEST EVER recorded Friction. The LOWEST EVER recorded Wear.

SuperSecret Chain Coating

Remarkable, the first drip wax to fully penetrate. 10x lower dry wear rate than similar looking Squirt or Smoove.

Synergetic® Tungsten Tribofilm

WS2 plus Additive Z, developed for F1 Engine Valve trains, forms a 'Durable Tribofilm' under pressure. This Tribofilme is ~1-2 Micron Thick and HARDER than steel, while being LOWER FRICTION than Teflon.

 **Zero Friction
Cycling**

Zero Friction Cycling uses the most robust testing – both in house controlled test and field testing as well as from the most accurate test labs around the world, to determine very select best in class products. ZFC selects only the those whom have brought a great product to market, not those who have simply brought great marketing to the market.

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Zero Friction Cycling

	Block 1 - No Contamination	Block 2 - Dry Cont.	Block 3 - No Cont.	Block 4 - Wet cont.	Block 5 - No Cont.	Block 6 - Extreme Cont.	Extrapolated chain lifespan - blocks 1-5	Extrapolated wear based on block 1 only
WET Lubricants								
Silca Synergetic	0.0%	18.3%	42.6%	70.0%	91.7%	147.0%	5,452	25,000
Nix Frix Shun	12.6%	40.0%	54.3%	82.9%	155.0%		3,907	7,937
Rock N Roll Gold	8.9%	37.9%	57.9%	122.0%			3,460	11,235
Cycle Star Gold	22.3%	53.1%	98.3%				3,052	4,484
White Lightning Epic Ride	22.9%	56.5%	160.7%				2,249	4,366
Shimano Factory Grease	10.9%	31.7%	Test Stopped due to damage caused by chain-suck				2,000	9,174
Muc Off Hydro Dynamic	27.6%	126.6%					1,580	3,623
Muc Off Nano Lube	37.7%	145.4%					1,375	2,652
HOT MELT WAX Lubricants								
Silca Hot Melt	0.3%	2.0%	6.6%	14.6%	19.0%	27.4%	25,000	25,000
Molten Speed Wax Original Formula	0.0%	12.0%	12.0%	20.0%	20.0%	98.0%	25,000	25,000
AB Graphene Wax	22.0%	60.3%	85.1%	188.7%			3,150	4,545
DRIP WAX Lubricants								
Ceramic Spd UFO Drip New Formula (2drops per roller / 24 hour cure)	2.3%	5.7%	6.3%	38.6%	55.6%	92.2%	8,992	25,000
Silca Drip Batch 2 (1 drop per roller / 8 hour cure)	2.9%	7.5%	7.5%	44.4%	73.4%	133.0%	6,811	25,000
Tru Tension Tungsten All Weather	14.0%	24.0%	36.0%	67.0%	85.0%	117.0%	5,882	7,143
Smoove	19.1%	36.6%	38.6%	87.3%	118.0%		4,423	5,235
Tru Tension Tungsten Race	5.4%	7.4%	9.7%	48.0%	78.0%		6,410	18,519
Squirt	19.1%	39.0%	61.0%	109.4%			3,670	5,235
Wend wax 2	35.7%	69.4%	98.0%				3,061	2,801

What's in your lubricant?



Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals that include perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). PFAS have been manufactured and used in a variety of industries around the globe, including in the United States since the 1940s. PFOA and PFOS have been the most extensively produced and studied of these chemicals. Both chemicals are very persistent in the environment and in the human body – meaning they don't break down and they can accumulate over time. There is evidence that exposure to PFAS can lead to adverse human health effects. This is a concern in fire and emergency services because fluorine based Class B foams contain PFAS.



Volatile organic compounds (VOCs) are emitted as gases from certain solids or liquids. VOCs include a variety of chemicals, some of which may have short- and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors. VOCs are emitted by a wide array of products numbering in the thousands.

