

ON TEST

Born Slippy



A NEW INNOVATIVE LUBRICANT HAVE BEEN RELEASED ON THE MARKET AFTER ABOUT TWO YEARS OF DEVELOPMENT. MANY TESTS NEEDED TO BE DONE TO DEVELOP A COMPLETELY NEW TYPE OF LUBRICANT THAT TAKES CARE OF THE MECHANICAL COMPONENTS ON OUR R/C HELICOPTERS. *WORDS & PICTURES: DAVE DIJKMANS*



Dryfluid introduces an innovative lubricating oil and grease which reduces friction and guards against dust and dirt

Features at a glance...

- Reduced wear on shafts, bearings and ball link systems and guarantees a long life of the treated components
- Low friction for smooth operation and the reduction of wear
- Multistage lubricant with immediate and long-term lubrication effects
- Does not attract dust and dirt
- Extremely good penetrating
- High material compatibility with all common metals, plastics and rubber materials
- Excellent adhesion and corrosion protection properties

They come presented in a nice box with a special applicator: brush (Gear Lube) and needle (Dryfluid)



The new material is called DryFluid Extreme and was primarily developed with the aim to extend the life of the little

mechanical marvels. Application field of DryFluid is shafts, bearings, guides and ball-links but also drive gears. Most of us modellers are very careful on what we use on our helicopters because of the fear of wear mostly due to dust and dirt. DryFluid performs an ideal partner if you are one of those modellers. It just works!

According to the manufacturer when using this product you can achieve a greater result of lubrication and even a better gliding without having to worry about the abrasive effect of dust and dirt. Furthermore, using DryFluid we found in our application tests on several different areas and models a long-term lubricating effect and a dry run protection.

BORN OUT OF NEED

The company's founder, Rolf Jacobs had the idea for the development of DryFluid when he was at his flying field. After only a few flights with his just well oiled helicopter all the rotating and moving elements were covered with dust and with a blackened layer. The search for a suitable R/C helicopter care product has resulted both in a survey of his fellow flight colleagues as well doing some research in specialised R/C heli forums and reading the test outcome of other lubricant products.

Obvious for Rolf was to search for something completely new that doesn't exist already on the market. After working on the product many months of research and countless tests with potential solutions were tried. The company took the best lubricants out of the world of aerospace and automotive engineering and applied

to the perfect product needed for our miniaturized helicopters. The result was a fluid, which is initially thin after its 'dry' application and thereby does not bind any dust and dirt. DryFluid is developed and produced in the city of Berlin, Germany.

SOLID PARTICLES AGAINST DUST AND DIRT

While conventional lubricants are built almost entirely on the basis of oil or fat, DryFluid Extreme went in a complete new direction. Instead of using the classic lubricant components they used solid microparticles in combination with a special polymeric product. A special adhesive fluid provide good support for this smallest lubricant particles to stick on the surfaces we want to lubricate. DryFluid uses a fast evaporating excipient which when applied has an almost unbelievable capillary action, so it can penetrate within a few seconds in each angle that needs to be lubricated. After evaporation of this substance, the carrier fluid is dry. This explains the weird sounding name DryFluid. In addition DryFluid is resistance to extreme pressures, has a high thermal stability and a incomparably low friction and long term lubrication effects with dry run protection.

LUBRICATION POINTS FOR DRYFLUID EXTREME

Basically, anything that can be moved can be treated with DryFluid extreme. Exceptions are nitro engines and thus bearings, for which special lubricants or grease needs to be used. The most efficient way to get DryFluid working is when used on shafts, bearings, guides, ball-links, swash-plate and main and autorotation gears. When we tested this we even noticed the reduction of friction by the extended autorotation time. Who wouldn't want to miss such a great side effect which can save your helicopter!!

BALSAM FOR HELI GEARS

After the company unveiled its newly developed lubricant for model helicopters, they presented at the Nuremberg Toyfair their latest innovation. It is a specifically developed for highly loaded gears, a high end lubricant with long term lubrication effects called DryFluid Extreme Gear Lube. The fields of use of DryFluid Gear Lube are the main drive gears, tail drive gears and the servo gears.

Features of DryFluid Extreme Gear Lube are as follows:

- Reduced power losses due to friction
- Reduces wear
- Extreme pressure resistant
- Long-term stability
- Highest adhesion
- Reduces operating noise
- High material compatibility with metals, plastics and rubber materials Low tendency to dust and dirt bond

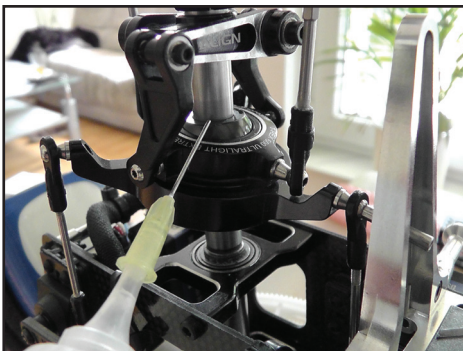
Dryfluid should be used to lubricate metal parts such as shafts, bearings, etc.



Gear Lube benefits in reducing friction and wear on main gears and pinions



Dryfluid besides lubricating it leaves a small anti dust film on the parts where we apply the product



Using the pin point applicator we can easily access all the small gaps



Prevent dust adhesion will benefit out mechanics and lifetime of the parts



The name DryFluid is reflected in the new Gear Lube program. First applied in liquid form after evaporation of a carrier fluid remains a high compressive strength of white greasy film, which shows only a slight tendency to dust and dirt retention. Highest adhesive strength and extremely low friction were the main objectives of the development of the new Gear Lube. Along with these properties will reduce wear and very long lubrication intervals. DryFluid Extreme Gear Lube is more then just a classic lubricant. Its 100% fat, oil and silicone free.

We tested this on our electric helicopters like the TSA Infusion 700E which used M1 mod main drive gear which due to high power in now a days motors wear and suffer a lot. Since using the Gear Lube we haven't changed any main gear in while and wear is very less. Also the noise produced by the motor pinion and main drive gear is reduced almost to the level of a helical gear.

THE VERDICT...

First of all special thanks to Rolf Jacobs providing us with some test samples and

information. First we were very sceptical as this was going to be one of the dozen lubricants on my shelf, but after its first application I noticed it was something different and started to apply it to all moving parts and gears on the helicopter. The results were more then positive and the description was 100% accurate, the friction was significantly reduced on the gears, this was noticeable doing auto rotations and even the head speed went up using plain throttle curves. A product that really is recommendable in every modellers case and a must have to take good care of your model! 🚁

Dave Dijkmans

Tech Spec...

DryFluid	
DryFluid lubricant	€13.90
DryFluid Gear Lube (10ml)	€13.90
DryFluid Gear Lube (20ml)	€20.90

Available from: Online direct from manufacturer
 Manufacturer: Dry Fluids
 Web: www.dryfluids.com