

**ROCOL®**

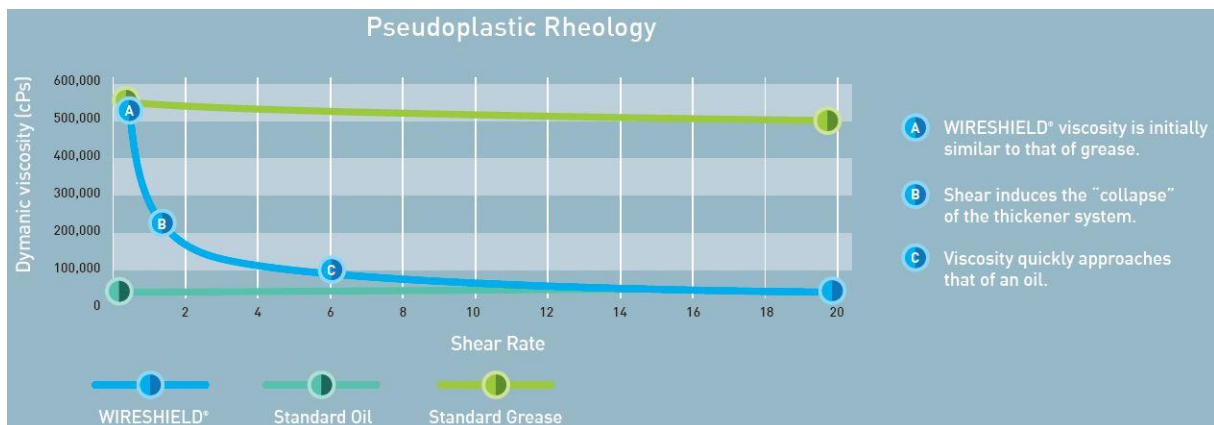
**BIOGEN WIRE SHIELD®**

**BIODEGRADABLE LUBRICANT FOR WIRE ROPES AND ROV UMBILICALS**

Rocol Biogen Wireshield is a highly water resistant biodegradable VGP applicable wire-rope product.

A wire rope product needs to fulfill two major tasks, being wire-rope conservation and wire rope lubrication. The difficulty is to combine both features in one product, wire rope conservation requires a sticky type of product which is highly water resistant to avoid being sling off and washed off by seawater whereas for lubrication and internal conservation it should be able to penetrate the wire rope. Wire rope penetration and a sticky (grease) do regularly not combine in one product. This means the majority of products in the market is grease or fluid like, as well a lot of wax type products which drip off with higher ambient temperatures.

Rocol developed the Wireshield wire rope product to solve this issue. By using a Pseudoplastic Rheology technology Rocol combined the tow characteristics in one product, being a sticky grease when static and a penetrating fluid when dynamic. The graph below shows these characteristics.



Under load (wire running over a sheave) the product penetrates the wire rope to create conservation into the wire rope core. When the wire rope passed the sheave it is returning to its grease like structure creating high resistance against sling off and water wash off.

Last year Rocol launched the fully biodegradable version of the Wireshield being the Biogen Wireshield which is especially developed for the US VGP regulations and the use in the offshore industry for umbilical wires.

Wireshield and Biogen Wireshield will help you to solve your wire rope wear and corrosion issues without fouling your vessels deck. With a consumption of approximately 1 kg per 50 mtrs of 32 mm wire rope and very high water resistance the Rocol Wireshield products create a low consumption of product in time.