

# DYNAGARD Blue Wire Rope Lubricant

## Spec Sheet

Dynagard Blue is an extreme pressure unleaded lubricant blended for excellent resistance to softening under severe working conditions, water resistance, and compatibility with all Kirkpatrick Wire Rope Lubrication Systems.

An unleaded extreme pressure additive provides exceptional protection against wear and shock loads, while additional additives enhance resistance to water wash, protection against fling off at high wire rope travel speeds, and long service in high temperature ranges.

Dynagard Blue has outstanding structural and chemical stability. It won't corrode steel and copper bearing alloys and is compatible with conventional seal materials. Bio-Aquatic toxicity tests of this product on sensitive marine organisms performed by independent testing laboratories has shown it to have excellent LC-50 values. Copy of MSDS test data is available upon request.

### DYNAGARD Blue Specifications:

• National Stock Number	<b>9150-01-520-8116</b>
• MIL-G-18458B & MIL-PRF-18458C (Type I)	<b>Meets or surpasses all standards</b>
• LC50 Toxicity Rating, EPA/600/4-90/027	<b>24 Hour=4648ppm, 48 Hour=2323ppm</b>
• Viscosity	<b>NLGI Grade 2 (N/A on custom formulations)</b>
• Color	<b>Blue</b>
• Texture	<b>Smooth / Buttery</b>
• Soap Type	<b>Lithium 12 Hydroxystearate</b>
• Mineral Oil %	<b>50% Nominal</b>
• Oil Separation % (ASTM D217)	<b>5% Maximum</b>
• Unworked Penetration: mm,ASTM D217	<b>276 +/- 25</b>
• Unworked Penetration: Custom Formulation	<b>325 +/- 15</b>
• Viscosity, cSt at 40 degrees C	<b>320</b>
• Viscosity, cSt at 100 degrees C	<b>21-23</b>
• Dropping Point, C/F	<b>177/350</b>
• Rust Test, ASTM D1743	<b>Pass</b>
• Salt Fog Corrosion Resistance, ASTM B117	<b>1000 Hours/Pass</b>
• Salt Spray, Fed, Standard 791, TM 4001 (10 Days)	<b>2 Dots (Pass)</b>
• Accelerated Weathering (G23, 10 Days)	<b>2 Dots (Pass)</b>
• Load Wear Index (ASTM D2596)	<b>34</b>
• Adhesive% (Sec. 4.6.6 150rpm@151F {+/-2})	<b>95</b>
• Volatile Matter, % Loss	<b>2.0% Maximum</b>
• 4-Ball Weld, kg. (4-Ball wear diameter,min/max)	<b>0.65</b>

## DYNAGARD Blue Wire Rope Lubricant

### Salt Fog Test Results

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**DYNAGARD Blue** wire rope lubricant.

20% Salt-Fog results after an extended **600 hour** test!

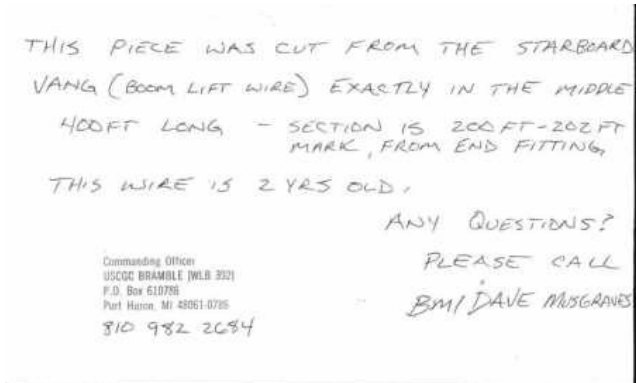


**US Navy approved MIL-G-18458B "stock system"** wire rope lubricant (manufactured by a large petroleum company).

20% Salt-Fog test result at only the standard 200 hours test requirement.

## DYNAGARD Blue Wire Rope Lubricant

### Two-Year Field Test Results



DYNAGARD "Blue" two year performance test from the USCGC Bramble (WLB-392) Buoy Tender based out of Port Huron, Michigan.

The 3/4" boom hoist cable was lubricated with a Kirkpatrick Group pressure lubrication system (SU35B), and in service for 2 years.

The sample in this photo series was taken from the mid-section of the boom hoist cable.



USCGC Bramble vang wire as it was received, but prior to cleaning and strand separation/inspection.



Vang wire as strands are separated, revealing IWRC.

No Corrosion present!



Vang wire as IWRC is separated, and actual wire core is exposed.

Still no corrosion.



IWRC with the core removed.

Note the residual lubricant where the core **had** been located.



Wire Rope Core after it has been cleaned and removed from the IWRC.

**Still no corrosion.**