



## METALON HIGH-TECH EP 1.5 GREASE

### Superior Multi-use High Temperature Friction Fighter

#### INFORMATION and ASTM/ENGINEERING DATA

**METALON HI-TECH EP 1-5 GREASE** is a superior multi-use, high temperature, over-based complex lubricant. The principle of over-basing is not new. Calcium sulphonates have provided mechanical and thermal stability and exceptional resistance to water and corrosion for many years. However, the dispensing, pump-ability and low temperature properties were poor. Through sophisticated research in complexing methods, a new generation of grease has been developed, which offers extra bonuses.

The unique combination of this latest grease technology of over-based complex calcium sulphonates, PLUS 1.5 penetration, PLUS **METALON EP** offers characteristics and qualities unmatched by lithium or other greases. its penetration of **NLGI 1.5** bridges the #1 and #2 grades. reduces inventories and misapplication problems, while enhancing the pump-ability and dispensing properties.

**METALON HI-TECH EP 1.5 GREASE** protects against rust, corrosion, oxidation, water washout and displays excellent stability through temperatures ranging from -40 °C/F to 300 °C(>570 °F) and it is **reversible**. The **METALON** component of the formula will chemically bond to the metal contact surfaces, providing **residual anti-wear protection**, even when the grease is squeezed out.

**METALON HI-TECH EP 1.5 GREASE** is catalogued in the Canadian Government Cataloguing System, (CGCS) and assigned the **NATO Stock No. (NSN 9150-21-905-7275)**, and is listed at the **NATIONAL DEFENSE HEADQUARTERS**.

**TYPICAL USES:** Industrial. Farm Production and Construction Machinery, Automotive, Mining and Marine Equipment, Gears, Bearings, Stuffing Boxes, Automatic Lube Systems. Oven Conveyors, High/Low Speed Mechanisms, Military Equipment, Tractor Fifth Wheels and most other Grease Applications.

#### INSPECTION DATA:

(According to ASTM Specifications)

<u>DESCRIPTION</u>	<u>ASTM</u>	<u>RESULTS</u>
Dropping Off Point °F (°C)	D-2265	300(575)
<b>Shear Stability:</b>		
Penetration @ 25 °C	D-217	
Worked @ 60 Strokes		285-315
Worked @ 10,000 Strokes		1%
Worked @ 100,000 Strokes		2%
Worked @ 10,000 Strokes w/ 50% Water		285-315
<b>Roll Stability:</b>	D-1831	+3%
<b>Extreme Pressure:</b>		
Timken Value Kg/lb.	D-2509	34/75
4-Ball Wear Test	D-2266	
@ 40 kg-scar (mm)		0.32
LWI, kg	D-2783	70+
Weld Point, kg		500+
<b>Wheel Bearing Leakage:</b>		
gms. @ 325 °F (163 °C)	D-1263	0.4
<b>Water Washout:</b>		
@ 175 °F (79 °C), % Loss	D-1264	<3
<b>Rust, (1=Pass)</b>	D-1743	1,1,1
<b>Corrosion Resistance:</b>		
Copper Corrosion	D-1261	Pass
Bearing Corrosion	D-1743	Pass
<b>Oxidation (PSI Loss)</b>		
@ 100 hours	D-0942	0
@ 500 hours		2
@ 1000 hours		9
<b>Low Temp. Torque</b>		
@ -40 °F (-40 °C)	D-1478	8.0
After 5 minutes		3.7
After 10 minutes		3.5
<b>Base Oil:</b>		
Viscosity, SUS		
@ 100 °F (40.0 °C)	D-2161	600 (cSt)
@ 210 °F (100 °C)	D-2161	70 (cSt)
Pour Point °F (°C)	D-97	+2 (-17)
Flash Point °F (°C)	D-92	475 (245)
<b>Colour-Texture:</b>		Blue, Buttery & Smooth

NOTE: The information and data presented herein are based on tests, reports and research we believe to be accurate and reliable. The information and data are provided without warranty, guarantee or liability on our part and are therefore, provided to customers for their own investigation, verification and consideration.

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