



Arpol Petroleum Company

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ARPOLUBE 21164

U.S. MILITARY SPECIFICATION: MIL-G-21164D

NATO G-353 MILITARY SYMBOL: GMD

This specification covers the requirements for one grade of low and high temperature molybdenum disulfide grease for use as a lubricant on heavily loaded sliding steel surfaces.

Characteristics

Requirements

Penetration: Unworked, minimum	200
Worked	260-310
Dropping Point, °C (°F), minimum	165 (329)
Bomb oxidation: Pressure drop, KPa (psi), maximum:	
In 100 hours	68.9 (10)
In 500 hours	103.4 (15)
Copper, corrosion: ASTM classification, maximum 1b 1/	
Water resistance, %: grease loss at 40 ± 0.5 °C	
(104 ± 1 °F), maximum	20
Evaporation, % weight: loss in 22 hours at 100 ± 1 °C	2.0
(212 ± 2 °F), maximum	
Oil separation, % weight loss in 30 hours, maximum	5
Low temperature torque, at -73 °C (-100 °F) Nm, max.:	
Starting	0.98
Running after 1 hour	0.098
Extreme pressure properties:	
Load heat index, minimum	50
High temperature performance, hours at 121 °C	
(250 °F), minimum	1,000
Penetration after mechanical working 100,000	
double strokes	260-375
Rust preventative properties	1/
Storage ability after 6 months at 40 ± 2 °C (104 ± 4 °F):	
Unworked penetration, minimum	200
Worked in penetration, change in points from	
original, maximum	30

1/ – Refer to original specification