

# Mobilith AW Series

## Grease

### Product Description

The Mobilith AW Series products are high performance lithium-complex greases. They are formulated with antiwear agents to provide excellent service under the severe operating conditions of heavy and shock loading. Oxidation inhibitors enhance the ability of Mobilith AW Series greases to withstand operating temperatures up to 175° C with minimum breakdown or leakage. Rust inhibitors protect lubricated components from rust and corrosion. Mobilith AW Series greases are available in NLGI grades from 00 to 3 with base oil viscosity ISO VG 150, except for Mobilith AW 00 which is ISO VG 100.

Mobilith AW Series greases have excellent handling and dispensing properties at temperatures down to -40° C, which means they are superior to most high-temperature greases that generally have poorer low-temperature consistency and pumpability. The Mobilith AW Series greases provide superior lubrication under thin film conditions, and resist displacement from highly loaded components encountered in industrial applications. Their excellent resistance to water and protection against rust make the greases well suited to applications requiring maximum protection over extended periods.

### Features & Benefits

Mobilith AW Series greases are important members of the Mobilith brand of lithium-complex based greases that have earned a solid reputation for high performance capability, excellent equipment protection and long life. Mobilith AW Series are backed by ExxonMobil's worldwide team of technical and application experts to ensure that the best choice of product is used in customers' applications. The reliable high quality of Mobilith AW Series greases results from the state-of-the-art facilities used in their manufacture.

Features and potential benefits for Mobilith AW Series greases include:

Features	Advantages and Potential Benefits
Excellent antiwear protection under heavy and shock loads	Excellent protection of lubricated equipment with the potential for extended life and reduced maintenance
Excellent protection against rust and corrosion	Outstanding operating temperature range: -40° C to 175° C Highly reliable equipment protection, even in hostile environments, with less unanticipated downtime
High dropping point: 260° C	Excellent high temperature performance with long grease life and reduced maintenance potential
Very good low temperature properties	Series includes products capable of handling, dispensing and lubricating down to -40° C



## Applications

Application Considerations: In order to maintain the performance characteristics of the Mobilith AW Series greases, completely clean or purge previously used greases from the system.

Mobilith AW Series greases are heavy-duty products designed for multi-purpose industrial applications covering a wide range of operating conditions. Specific applications include:

- Mobilith AW 1, 2, and 3 greases are recommended for the lubrication of bearings operating with heavy or shock loads, and at temperatures up to 175° C. They are suitable for lubricating cams, ways, and other sliding elements. Other applications include vehicles and greased components in paper mills, where both water and high temperatures are encountered.
- Mobilith AW 0 and 00 are softer, high-temperature greases recommended for centralised grease application systems, gear lubrication, and where extreme-cold-temperature pumpability is important.

## Specifications & Approvals

Mobilith AW Series meets or exceeds the following industry specifications:	00	0	1	2	3
Quality Level USDA H2	X	X	X	X	X

Mobilith AW Series meets or exceeds the following builder approvals:	00	0	1	2	3
Cincinnati Machine, P-64				X	

## Typical Properties

Mobilith AW Series	00	0	1	2	3
NLGI Grade	00	0	1	2	3
Thickener Type	Li-complex	Li-complex	Li-complex	Li-complex	Li-complex
Color, Visual	Green	Green	Green	Green	Green
Penetration, Worked, 25° C, ASTM D 217	415	370	325	280	235
Dropping Point, °C, ASTM D 2265	--	--	260	260	260
Viscosity of Oil, ASTM D 445					
cSt @ 40° C	100	150	150	150	150
4-Ball Wear Test, ASTM D 2266, Scar, mm	0.5	0.5	0.5	0.5	0.5
4-Ball Weld Load, ASTM D 2509, Kg		250	250	250	250
Timken OK Load, ASTM D 2509, lb	30+	40+	40+	40+	40+
Bomb Oxidation, ASTM D 942, Pressure drop at 100 hrs, kPa	35	35	35	35	35
Corrosion Prevention, ASTM D 1743	Pass	Pass	Pass	Pass	Pass
Rust Protection, IP 220, Distilled Water	0-0	0-0	0-0	0-0	0-0
Copper Strip Corrosion, ASTM D 4048	1A	1A	1A	1A	1A





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## Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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ExxonMobil Lubricants & Specialties

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