



**Product Data**

## **Tribol™ CM ATO 100**

Zinc-Free Air Tool Oil

### **Description**

Tribol™ CM ATO 100 (previously named Tribol ATO 100 LS ZF) is oil designed for severe service in pneumatically operated tools producing rotary and/or reciprocating motion.

### **Application**

Typical applications for Tribol CM ATO 100 are nut-runners, torque wrenches, screw drivers, drills, sanders, chippers, hammers, and any other air-operated machine requiring an ISO 22 viscosity lubricant. Tribol CM ATO 100 can be applied by an airline oiler, spray mist, oil cup, splash, or automatic dispensing equipment and via central oiling or circulation systems.

### **Advantages**

Tribol CM ATO 100 offers excellent protection with a very thin film because of a proprietary blend of antiwear, extreme pressure (EP), and friction modifying agents which perform synergistically in combination. It is formulated to sustain a lubricant film in the presence of excessive condensed moisture from a humid environment. Special compounding causes the water to be encapsulated and removed in the exhaust air. This allows the lubricating oil to preferentially wet cylinders, vanes, valves, and other contact surfaces for maximum protection.

## Typical Characteristics

Name	Test Method	Units	CM ATO 100
ISO Viscosity Grade	-	-	22
Kinematic Viscosity @ 40°C / 104°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	21
Kinematic Viscosity @ 100°C / 212°F	ASTM D445 / ISO 3104	mm <sup>2</sup> /s	3.1
Specific Gravity @ 15°C / 59°F	ASTM D1298 / ISO 3675	-	0.9053
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	171 / 340
Pour Point	ASTM D97 / ISO 3016	°C/°F	-40 / -40
Rust test - distilled water (24 hrs)	ASTM D665A / ISO 7120	-	Pass
Rust test - synthetic seawater (24 hrs)	ASTM D665B / ISO 7120	-	Pass
Carbon residue - Conradson test	ASTM D189 / ISO 6615	%wt	0.03
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ASTM D4172 (mod)	mm	0.35
Falex Pin & Vee Block test - Antiwear properties	ASTM D 2670-10	Teeth Wear (number)	5

Subject to usual manufacturing conditions.

**This product was previously named Tribol ATO 100 LS ZF. The name was changed in 2015.**

Tribol™ CM ATO 100

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