



## Marok®

Phillips 66® Marok® is a high-quality, adhesive, extreme-pressure (EP) lubricant specially developed to lubricate in the presence of moisture or where oil leakage is a problem. It is recommended for the lubrication of marine, mining, and industrial equipment operating in wet environments, and for the lubrication of air-powered tools, such as rock drills and jackhammers.

Marok is formulated with naphthenic base oils and a specially tailored additive package to provide excellent protection for pneumatic percussion tools and marine and industrial equipment operating under wet conditions. It has good load-carrying capacity to protect against wear and seizure of sliding metal surfaces under heavy or shock-load conditions. It has excellent adhesion to metal surfaces in the presence of moisture, and protects against rust and corrosion. It resists dripping and leakage, which is especially useful in applications where bearing clearances are large or seals are inadequate.

## Applications

- Pneumatic percussion tools such as jackhammers, pavement breakers, and rock drills
- Mining equipment such as demolition hammers, chipping hammers, and drifters
- Marine applications such as stern tube bearings, oil-lubricated tunnel bearings, and cylinder lubricant for steam engines and crosshead engines
- Drive chains and overhead conveyors where a non-drip lubricant is required
- Enclosed industrial gear drives where oil leakage is a problem

## Features/Benefits

- Good extreme-pressure properties
- Protects against wear and seizure
- Excellent adhesion to metal surfaces in the presence of moisture
- Resists dripping and leakage
- Protects against rust and corrosion
- Low odor

**Adhesive,  
Extreme-  
Pressure  
Lubricant for Air  
Tools & Marine  
Equipment**

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



## Marok®

Typical Properties				
ISO Grade	68	100	150	220
Specific Gravity @ 60°F	0.916	0.922	0.926	0.932
Density, lbs/gal @ 60°F	7.63	7.68	7.71	7.76
Color, ASTM D1500	3.5	3.5	4.0	5.0
Flash Point (COC), °C (°F)	186 (367)	192 (378)	204 (399)	204 (399)
Pour Point, °C (°F)	-24 (-11)	-21 (-6)	-21 (-6)	-15 (5)
Viscosity				
cSt @ 40°C	68.0	100	150	220
cSt @ 100°C	7.7	9.2	11.4	14.2
SUS @ 100°F	356	530	803	1,189
SUS @ 210°F	52.1	57.4	65.6	76.7
Viscosity Index	68	51	41	38
Acid Number, ASTM D664, mg KOH/g	0.60	0.60	0.60	0.60
Carbon Residue, ASTM D524, wt %	0.12	0.10	0.16	0.19
Falex EP Load, ASTM D3233, lbf	900	900	900	900
Four-Ball Wear, ASTM D4172, Scar Diameter, mm	0.32	0.32	0.32	0.32
Four-Ball Weld Load, ASTM D2783, kgf	250	250	250	250
Foam Test, ASTM D892, Seq. I, mL	10/0	10/0	10/0	10/0

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

07-12-16

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

© Phillips 66 Company. Phillips 66® and its respective logos and products are registered trademarks of Phillips 66 Company in the U.S.A. and other countries.