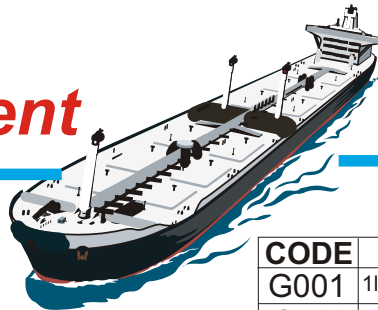




# Marine Diesel Equipment



## PTFE METAL TREATMENT for Hydraulics

with PTFE POLYMER ...

"the most slippery substance known"

.... as wet ice on wet ice.

Exceeds manufacturer's warranty requirements..

..... long lasting protection

CODE	SIZE
G001	1liter / 12 pieces in case
G011	5 liter 5 each/carton

### Benefits:

- Reduced friction and wear
- Friendly to the environment
- Reduced maintenance
- Less vibration
- Reduced cavitation
- Reduced heat and stress
- Reduced energy consumption
- Protection against corrosives
- Longer oil life
- Easier starting
- Increased resale value
- Improved performance

### Description:

ICE is not an oil additive, but an one time (repairable) metal treatment. The synthetic film of ICE PTFE protects and enhances the performance of the vital parts on your mechanical equipment. The PTFE (Polytetrafluoroethylene) film is only about 1 micron in thickness and follows the structure of the metal surface. Since this film is extremely slippery, is it impossible to overdo the treatment (no build-up) on a friction surface. Only when the metal surface appears, due to wear, a new treatment can be applied to repair the worn area. Only where there is metal to metal friction, will the friction surfaces get this super slick treatment. Apart from making a film on which the wear will occur, this film will make equipment less noisy, protect it against corrosives and keeping the surfaces clean of build-up of heavy residues from the oil. There is one other property of the ICE PTFE, which is exceptional, and which gives a lot of correlative benefits: The higher the pressure is between two surfaces of ICE PTFE, less is the friction. The coefficient of friction on two surfaces with ICE PTFE at 1 kg. pressure is 0,04, which is the lowest of any material. When the pressure is increased to 1,600 kg, the coefficient of friction drops to an amazing (0.01)! This extraordinary property gives a lot of benefits, since a roughness on the friction surface will appear as an increase of pressure, and thus giving a resulting decrease in the friction. This will give less damaging vibrations and heat, producing a longer lasting friction surface.

The longevity of ICE PTFE Metal Treatment in a gear is as long as you operate your equipment. When changing oil, retreat the gear with only 33% of the first dosage of ICE PTFE Metal Treatment, since you are repairing the ICE PTFE Metal Treatment that is worn off, on the tops of the friction surfaces.

### Challenge:

Hydraulic fluid must transmit power, lubricate moving parts, cool and dissipate heat and seal clearances between components. Lubrication of hydraulic pumps poses a major challenge. The many types of hydraulic pumps all generate substantial friction and heat, and QMI Hydraulic Treatment provides much needed lubrication protection.

### Applications:

Hydraulic pumps and motors.

### Directions:

1. Drain enough oil from hydraulic system to allow addition of recommended amount of ICE Metal treatment for hydraulics. If oil dirty or due for replacement, drain and refill new oil less amount of ICE PTFE metal treatment
2. Shake well, and add ICE Metal treatment for hydraulics, and add to gear box.
3. Use 8% of total oil capacity.

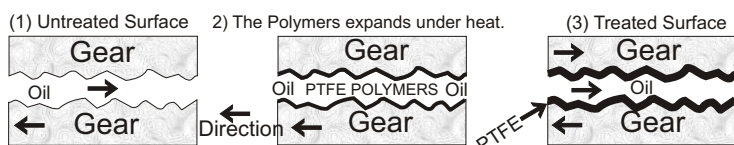
(This is a metal treatment not an oil treatment. Therefore, ratio may vary with extremes in reserve oil capacity)

Before applying ICE Metal Treatment always stir and shake up the oil, since the PTFE polymers, after some time, tends to settle on the bottom of the container.

### Characteristics\*:

SAE No.	5W-20
Pour Point	-60°F
Flash Point (Open cup)	+324°F
Viscosity SUS @100°F	187
SUS @210°F	53
Viscosity Index	201
Seal Swell Buna N, 70 hour, 212°F, %	3
Dielectric strength-	15 to 20 kilovolts

\*Characteristics apply to carrier oils, and may vary slightly.



ICE METALL TREATMENT IS LONG LASTING, do not apply with each oil change.

Warning: Do not take internally. Keep out of eyes. For eyes- flush with water. Get medical attention. May cause skin irritation. If on skin, flush with water. KEEP OUT OF REACH OF CHILDREN. FOR PROFESSIONAL USE ONLY



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