



**Cyclo Industries, Inc**

**401 Maplewood Dr • Jupiter, FL 33458 • 561-775-9600**

# TECHNICAL DATA SHEET

## Pipe Sealant with PTFE

C-59250

### PRODUCT DESCRIPTION

Cyclo® Pipe Sealant with PTFE is a medium strength anaerobic sealant with PTFE for tapered pipe threads. This sealing compound is of a white, creamy paste consistency. The high lubricating properties of this compound prevents galling on pipe threads and fittings. It will provide immediate low pressure sealing and allow for the readjustment of fittings shortly after assembly. After 72 hours the joint is sealed to pipe burst pressure. This product has a medium solvent resistance and will withstand temperatures to 204°C (400°F). **This product is not recommended for use on plastic piping.**

### PRODUCT BENEFITS

- Resists leakage, vibration loosening, moisture, hydraulic fluids, diesel fuels.
- Lubricates threads for easy assembly and disassembly.
- Will not shred or wear like Teflon<sup>®</sup> tape.
- Parts may be repositioned for up to 24 hours after application.
- Suited for temperatures up to 204°C (400°F)
- Contains PTFE

### TYPICAL APPLICATIONS

- Head bolts into through holes
- Oil PSI sending units/sensors
- Oil and coolant lines
- Fuel fittings
- Rear axle fill plug
- Brake and power steering fittings

### DIRECTIONS FOR USE

1. For best performance, surfaces should be clean and free of grease.
2. Product should be applied to the thread engagement area in sufficient quantity to fill all engaged threads.
3. Use accepted trade practices to assemble and wrench tighten fittings until proper alignment is obtained.
4. Very large thread sizes may create large gaps, which will affect cure speed and strength.
5. For maximum pressure and solvent resistance, allow at least 24 hours for the product to fully cure before filling and pressurizing system.
6. Fittings assembled with Cyclo® High Temperature Thread Sealant may be disassembled with normal hand

tools.

7. For large pipe diameters (over 1"), heat may be required to disassemble fittings.
8. Fittings may be reused by removing loose sealant residue with a wire brush and reapplying sealant.

### FOR CLEANUP

1. Wipe off any material outside the joint with a dry cloth.
2. Clean hands with soap and water.
3. Cured material must be removed with Cyclo® Gasket Remover.

### PHYSICAL PROPERTIES OF UNCURED MATERIAL

	Typical Value
Appearance	White opaque paste
Odor	Acrid
Specific Gravity	1.21
Viscosity (cP)	350,000
Flash Point (T.C.C.) °C (°F)	>93 (>200)
Chemical resistance	Gasoline, oil, water, glycol, hydraulic fluid, freon, transmission fluid, brake fluid

### CURED PROPERTIES (Cured 72 hours @ 75°F)

	Value
Pressure Resistance (psi)	10,000
Temperature Range °C(°F)	-54 to 204(-65 to +400)
Breakaway torque N*m (in.-lb.)	5 (44)
Maximum recommended pipe size	2" NPT

### TYPICAL CURING PERFORMANCE

#### Cure speed vs. substrate

The rate of cure will depend on the material used. Cyclo® Pipe Sealant with PTFE will react faster and stronger with **Active Metals**. However, **Inactive Metals** will require the use of an activator (Cyclo® C-930 Surface Preparation) to obtain maximum strength and cure speed at room temperature. The graph below shows the breakaway strength developed with time on 1/2" NPT fittings compared to different materials.

**DISCLAIMER:** Cyclo Industries, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.



**Cyclo Industries, Inc**

**401 Maplewood Dr • Jupiter, FL 33458 • 561-775-9600**

# TECHNICAL DATA SHEET

**Pipe Sealant with PTFE**

**C-59250**

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

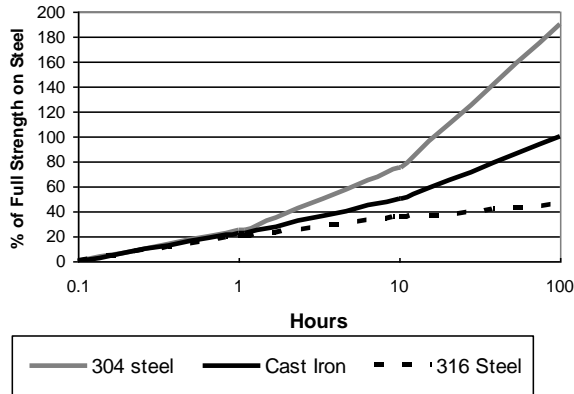
### ORDERING INFORMATION

<b>Part Number</b>	<b>Container Size</b>
C-59250	50 ml. tube

### STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

**Cure Speed vs Substrate**



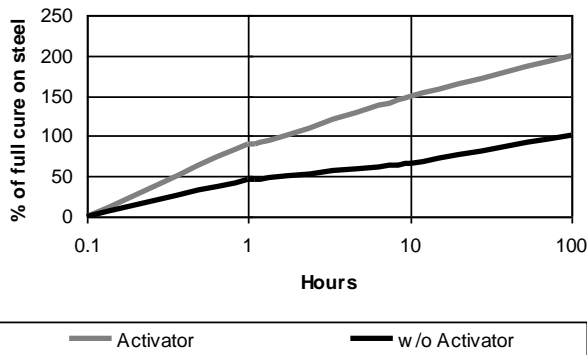
### Cure speed vs. temperature

The rate of cure will depend on the ambient temperature. Full cure is attainable in 24 hours at room temperature, 22°C (72°F), or 1 hour at 93°C (200°F).

### Cure speed vs. activator

Where cure speed is unacceptably long, or large gaps are present, applying an activator (Cyclo® C-930 Surface Preparation) to the surface will improve cure speed. The graph below shows the shear strength developed with time on 1/2" NPT fittings using Cyclo® C-930 Surface Preparation.

**Cure Speed vs Activator**



### GENERAL INFORMATION

**DISCLAIMER:** Cyclo Industries, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.