



ITW Performance Polymers
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Technical Data Sheet

Permatex® High Performance Thread Sealant

AAM Revised 06/14

PRODUCT DESCRIPTION

Permatex® High Performance Thread Sealant is formulated for fast, responsive curing on metal pipe threads and fittings. This sealant is a smooth, white paste-like compound with PTFE that controls lubricity to assist assembly and torque tightening. Permatex® High Performance Thread Sealant replaces tape or pipe dopes. It cures rapidly to withstand 10,000 PSI within 24 hours. Prevents galling and protects mated threaded surfaces from rust and corrosion. The product cures when confined in the absence of air between close fitting metal surfaces. **This product is not recommended for use on plastic piping.** NSF White Book registered.



Nonfood Compounds
Program Listed (P1)
(134204)

PRODUCT BENEFITS

- Quick fixture time
- Prevents galling and corrosion
- Controlled strength
- Temperature and solvent resistance
- Immediate low pressure sealing
- Contains PTFE

TYPICAL APPLICATIONS

- Stainless steel fittings
- Head bolts into through holes
- Oil PSI sending units/sensors
- Oil and coolant lines
- Hydraulic line fittings
- Brake fittings
- Transmission fluid fittings
- PTO fittings
- Air conditioning 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. This product performs best in thin bond gaps.
5. Very large thread sizes may create large gaps, which will affect cure speed and strength.
6. For maximum pressure and solvent resistance, allow at

least 24 hours for the product to fully cure before filling and pressurizing system.

7. This product is designed to give controlled friction (torque/tension ratio), during assembly.

FOR CLEANUP

1. Wipe off any material outside the joint with a dry cloth.
2. Clean hands with Permatex® Fast Orange® hand cleaner or soap and water.
3. Cured material must be removed with Permatex® Gasket Remover.

PHYSICAL PROPERTIES OF UNCURED MATERIAL

	Typical Value
Chemical Type	Methacrylate ester
Appearance	White opaque liquid
Odor	Acrid
Specific Gravity, g/ml	1.10
Viscosity (cP)	300,000
Flash Point (T.C.C.) °F	>200
Chemical resistance	Gasoline, oil, water, glycol, hydraulic fluid, freon

CURED INFORMATION

(Cured 24 hours @ 75°F)

Pressure Resistance (psi)	10,000
Temperature Range (°F)	-65 to +300
Breakaway torque (in.-lb.)	40

GENERAL INFORMATION

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

Part Number	Container Size
56521	50 ml. tube, carded

STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C and 28°C (46°F and 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.

NOTE

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