

TECHNICAL DATA

PR-706 Fuel Tank Channel Sealant

Description

PR-706 is a non-curing fuel tank channel sealant. It has a service temperature range from -65°F (-54°C) to 220°F (104°C). This material is designed for sealing aircraft fuel tanks utilizing a channel/groove design with gaps of 5 to 15 mils wide. The material offers excellent resistance to water and hydrocarbon aircraft fuels like JP-4 and JP-8.

PR-706 is a one part, polysulfide compound. The material is a heavy, putty-like compound suitable for application by high pressure injection gun.

The following tests are in accordance with AMS 3283 specification test methods.

Application Properties (Typical)

Color	White
Reinjection time, seconds, 2800 psi	15
Pressure rupture, psi (inches Hg)	4.5 (9.2)

Performance Properties (Typical)

Specific gravity, maximum	1.40
Nonvolatile content, % minimum	98
Fuel resistance, 14 days @ 140°F (60°C), volume change, %	
AMS 2629 Type I JRF immersion	30
TT-S-735 Type III JRF immersion	4
Weight loss, 14 days @ 140°F (60°C) immersion + 24 hrs @ 200°F (93°C), %	
AMS 2629 Type I JRF immersion	5
TT-S-735 Type III JRF immersion	3
Minimum adhesion, cohesive, %	100
Corrosion	None
Plastometer extrusion force, lbs (Newtons meter/meter)	340 (1512)
Low temperature flexibility @ -65°F (-54°C)	Conforms
Cold flow	None

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Surface Preparation

Immediately before applying sealant to primed substrates, the surfaces should be cleaned with solvents. Contaminants such as dirt, grease, and/or processing lubricants must be removed prior to sealant application.

For a more thorough discussion of proper surface preparation, please consult the SAE Aerospace Information Report AIR 4069. This document is available through SAE, 400 Commonwealth Avenue, Warrendale, PA 15096-0001.

Packaging Options

PR-706 is supplied in 6 oz. Semco® cartridges.

Application Method

A maximum pressure of 2800 lbs (12,455 Newtons) is used at an air pressure of approximately 40 psi (276 K-Pa) using a model 223 Grover-Smith injection gun with a Semco® cartridge adapter kit #226356. This material is compatible with polyfluoro and polycyanosiloxane-based channel sealants as well as polysulfides.

Storage Life

The storage life of PR-706 is 12 months when stored at temperatures of 80°F (27°C) or below in the original, unopened containers.

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at:
www.ppgaerospace.com

For sales and ordering information call
1-800-AEROMIX (237-6649).

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