



NSL870 Class B Aircraft Corrosion Inhibitive Sealant

Product Description:

NSL870 Class B is a corrosion inhibitive sealant for use on integral fuel tanks and pressurized cabins as well as other areas subject to contact with aircraft fuels, lubricants, oils, water and/or weathering.

NSL870 Class B is a two-part polysulfide base compound which cures at room temperature to a flexible, resilient rubber.

When mixed, NSL870 Class B is a thixotropic paste that will not flow. For mixed application life details see cure profile below.

Product Features:

- Excellent adhesion to aluminum, magnesium, titanium, steel and numerous other aircraft substrates.
- Designed to withstand the attack of sulfur compounds that are present in jet fuels and aviation gas.
- Service temperature range -65°F (-54°C) to 250°F (121°C) with excursions to 275°F (135 °C).
- Suitable for application by extrusion gun or spatula.

Heat-Accelerated Curing:

Increased temperature and relative humidity will reduce work life and speed up the cure. Reduced temperature and relative humidity will extend work life and slow the cure.

Replacement For:

P/S 870 Class B

Conforms⁴ To:

MIL-PRF-81733 by FAA-PMA Approval

Cure Profile:

	B-1/2	B-2	B-4
Application Life (hrs) ³	½	2	4
Tack Free Time (hrs) ³	5-6	5-6	12-14
Cure Time to 35 Shore A (hrs)	24	48	72

Packaging:

Available in 2½- and 6-oz. cartridges, pint, quart and gallon kits. Also available in premixed and frozen cartridges. Other-size packaging available upon request.

Shelf Life:

Sealed containers: 9 months when stored below 80°F. Slight changes in work life, viscosity and curing rate may occur but will not affect end performance of the product.

Typical Properties:

UNCURED		
Color:	Base	Off-white
	Curing Agent	Black
	Mixed	Gray
Mixing Ratio: (by weight)		100:10
	(by volume)	100:7.4
Non-volatile Content		95%
Viscosity, poise		
	Base	11,000 ²
	Curing Compound	1,000 ¹
Specific Gravity		1.50
Consistency		Paste
Soluble Chromate		5%
CURED – ROOM TEMPERATURE		
Cured – 7 days @ R.T. ³		
	Tensile Strength, PSI	430
	Elongation, %	330
	Durometer, Shore A	48
	Min. Peel Strength, PPI	15
Fungus Resistance		Non-nutrient

¹ Brookfield RVF Spindle #6

² Brookfield RVT Spindle #7

³ Conditions 77°F and 50% R.H.

⁴ Material and data depicted on this TDS is provided to Aerospace Sealants by the approved manufacture supplier(s) for this material. Qualification and inclusion on the QPL(s) is by the supplier(s) per their material identification and conforms as required by the governing specification.