

HIGH PERFORMANCE FIREWALL SEALANTS

Dependable, Safe and Effective Firewall Sealants for Aerospace and Defense Applications

The Stabond firewall silicone sealants provide critical flame and heat resistance, thermal protection and a secure barrier against smoke and toxic gases. It offers high strength, flexibility and excellent resistance to swelling in hydraulic fluid, oils and fuels.

- ▶ Long Open Time with Fast Homogeneous Cure
- ▶ Non-Volatile Content of > 96%
- ▶ Low VOC and PFAS Free Formulation
- ▶ Flame Resistant Thermal Insulation
- ▶ Primer-Less Substrate Adhesion

Our firewall sealants are designed to contain fire and to ensure structural integrity so the aircraft remains structurally sound, even in adverse conditions. Each product has been vigorously tested and proven to out perform and exceeds other products on the market.

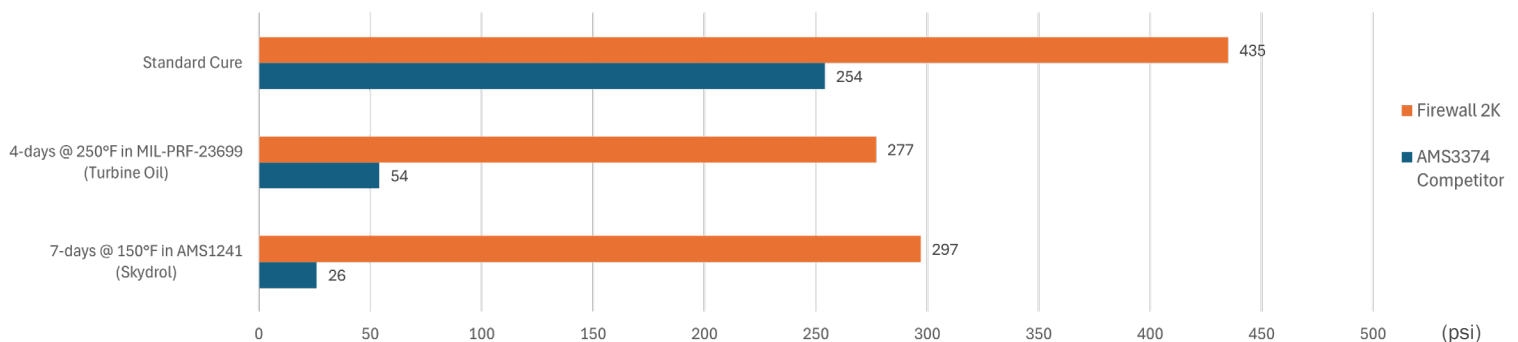
- ▶ Manufactured in AS9100/Nadcap accredited facility
- ▶ Qualified to industry specifications
- ▶ Products available in various sizes and kits
- ▶ Sustainable materials and manufacturing practices
- ▶ All products manufactured in the United States



Tensile Strength Comparison

Slower rate of degradation equals a longer lasting, more efficient seal

Stabond Firewall 2K vs. AMS3374 Competitor



STABOND FIREWALL SEALANTS

High-temperature Stabond Firewall silicone sealants are intended for use for sealing aircraft firewall structures against passage of air, vapors, and flames and provide excellent resistance to phosphate ester hydraulic fluids, engine oils, and jet fuels. All products are effective at all temperatures from -65 to +400°F (-54 to +204°C) and able to withstand flash temperatures of up to 2000°F (1093°C).

Stabond Firewall 1K - Single Component Bulkhead and Firewall Silicone Sealant							
Application Time	Tack-Free Time	Cure Time	SPG	Peel Strength ⁽¹⁾		Lap Shear Strength ⁽²⁾	
Not applicable	< 4 hours	30A < 48 hours	1.4	Control	22 pli	Control	464 psi
Specification		Flame Resistance ⁽³⁾		72 hours @ 400°F	23 pli	7 days @ 400°F	505 psi
AMS3374 Type 1, BMS5-63 Type 2, Class B-4, Form A		2000°F for 15 minutes		Cure Depth		7 days @ 120°F / 95% RH	407 psi
Shelf Life	6 months	no flame penetration		1/2 inch		7 days @ 75°F in AMS1241	364 psi

Stabond Firewall 2K - Dual Component Bulkhead and Firewall Silicone Sealant							
Application Time	Tack-Free Time	Cure Time	SPG	Peel Strength		Lap Shear Strength	
1 hour	2 hours	30A < 4 hours	1.4	Control	11 pli	Control	311 psi
Specification		Flame Resistance ⁽³⁾		72 hours @ 400°F	11 pli	7 days @ 400°F	488 psi
AMS3374 Type 4, BMS5-63 Type 2, Class B-½, Form K		2000°F for 15 minutes		Tensile Strength & Elongation		7 days @ 120°F / 95% RH	260 psi
Shelf Life	1 year	no flame penetration		435 psi, 120%		7 days @ 75°F in AMS1241	349 psi

Stabond Firewall 2K RED - Paintable, Dual Component Firewall Sealant Casting Silicone							
Application Time	Tack-Free Time	Cure Time	SPG	Peel Strength		Lap Shear Strength	
1.5 hours	3 hours	55A in 24 hours	1.49	Control	9 pli	Control	465 psi
Specification		Flame Resistance ⁽³⁾		72 hours @ 400°F	12 pli	7 days @ 400°F	613 psi
RMS 182		2000°F for 15 minutes		Flatwise Tensile		-	-
Shelf Life	1 year	no flame penetration		115 psi		-	-

⁽¹⁾ AMS4462 Anodized ⁽²⁾ AMS4911 ⁽³⁾ AS5127/2

ENHANCED BOND STRENGTH: STACOAT S-6530 Adhesion Promoter

Individual Technical Data Sheets and SDS information available for review and download online.

Stabond Corporation
 1722 West 139th Street
 Gardena, CA 90249
 (310) 380-6168 | info@stabond.com

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