

Fire Proof Products



Save weight, time, and money
with Kirkhill elastomer fire seals.

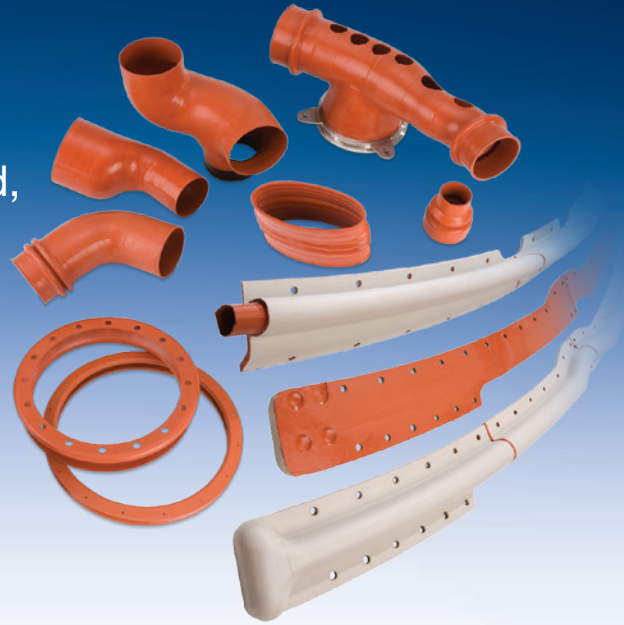


Fire Proof Products

Whether You Need a Firewall Penetration or Pass-Through, Bulb Seal, Air Duct, Shroud, or Panel, Kirkhill Makes an Elastomer-Based Fire Barrier to Meet Your Need.

Description

Most of the products meet FAA aircraft interior requirements for heat release, optical smoke density, and toxicity. All products, when correctly specified, block the ISO (1100°C, 116 kW/m²) and FAA (2000°F, 10 BTU/ft²•s) standard fire test flame over a minimum 322 cm² (50 in²) test area for 15 minutes without burnthrough or backside ignition.



Features & Benefits

- Reduce weight, installation time, and foreign object damage risk and increase maintainability through single or minimal piece constructions
- Reduce vibration and noise and compensate for assembly tolerance stackup with elastomeric material system
- Tailorable system approach offers an optimized solution to any application design requirements

Applications

The world's leading aerospace companies trust Kirkhill elastomer-based fire barriers in a wide range of applications including:

- Engine Core Exit Seals
- Auxiliary Power Unit (APU), Engine Nacelle, and Other Firewall Tube and Wire Pass-Throughs
- Nacelle Fire Seals
- Nacelle Air Ducts
- Engine and Nacelle Component Shrouds

New ideas and concepts, initiated in coordination with our customers, are continually being developed to replace divergent material systems with Kirkhill fire barrier products.

Configurations

Kirkhill can produce an elastomer fire barrier for any application, including complex molded shapes of lightweight, composite sheets for fireproofing and heat protecting large surfaces. Call for details.

Specifications

Kirkhill elastomer fire barriers are based on common silicone chemistry and thus have performance properties typical of silicones. Special formulations are available to withstand service temperatures in the 260°C to 316°C (500°F to 600°F) range. Kirkhill also produces fluorosilicone compounds and fluorocarbon coatings for better chemical resistance. Silicone-based metallic coatings are available for EMI protection and silicone-based paste and paint are used for repair of elastomer fire barriers and coating metals, respectively.

Most elastomer fire barrier designs use ceramic or fiberglass fabric reinforcement for added strength and fire resistance. Many large designs use closed cell silicone sponge, ceramic wool or other light weight, insulating materials as cores. For added strength and rigidity, honeycomb core material can be incorporated into these fire and thermal barriers. Kirkhill elastomer fire barrier products are tested in accordance with generally accepted industry fireproof standards including ISO 2685 and FAA AC 20-135. Complete material specifications and test reports are available for all material systems.



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