

TECHNICAL DATA SHEET



FIRE BLANKET

Product Overview: The Fire Blanket, made from non-texturized fiberglass fabric, is a high-performance material designed for thermal insulation and heat protection. Its durable and versatile design replaces asbestos-based products, offering excellent tensile strength, heat resistance, and chemical durability.

- Temperature Resistance – Operates safely at temperatures up to 550°C.
- Durable Construction – Resists burning, rotting, mildew, deterioration, and most acids.
- Low Thermal Expansion – Maintains dimensional stability under extreme heat.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	“PALEX”
Type	Fire Blanket
Approval	“CE” certified



2. MATERIAL PROPERTIES :-

Material Type	Non-texturized fiberglass fabric
Weave Style	Satin
Working Temperature	Up to 550°C

3. MECHANICAL PROPERTIES :-

Yarn (Tex)	EC9 33X4 (Warp and Weft)
Thread Count	Warp: 18.0 ± 1.8 per cm Weft: 14.0 ± 1.4 per cm
Tensile Strength	Warp: 2200 N/2.5 cm Weft: 1300 N/2.5 cm

4. PHYSICAL DIMENSIONS :-

Weight	$420 \text{ g} \pm 30 \text{ g/m}^2$
Width	1000 mm – 1500 mm
Thickness	$0.4 \text{ mm} \pm 0.04 \text{ mm}$
Roll Length	$100 \text{ m} \pm 1 \text{ m}$

5. FEATURES AND BENEFITS :-

- High Heat Resistance – Handles temperatures of up to 550°C effectively.
- Eco-Friendly Alternative – Free from asbestos, making it safer for users and the environment.
- Versatile Applications – Customizable with coatings like PTFE, aluminium foil laminating, graphite, vermiculite and heat – treatment.
- Durability – Resistant to physical wear and chemical damage.
- Adaptability – Suitable for industrial, construction, and safety use.

6. APPLICATIONS :-

- Heat Shields – Protects equipment and personnel in high-temperature areas.
- Welding Curtains – Provides a barrier against sparks and molten splashes.
- Stress Relief Covers – Ideal for thermal stress management in manufacturing processes.
- Insulation Covers – Ensures thermal and acoustic insulation in equipment and pipelines.
- Fire Curtains and Blankets – Provides safety in residential, commercial, and industrial settings.
- Expansion Joint & Flues Ducts – Ensure durability and insulation in industrial applications.

7. PERFORMANCE TESTING :-

- Temperature Cycling – Exposed to repeated heating and cooling cycles at 550°C with no degradation observed.
- Chemical Resistance – Immersed in acids and alkalis for 72 hours with no visible damage.
- Flame Spread Test – Passed EN 13501-1 standards, confirming non-combustibility.
- Flexibility Test – Subjected to repeated bending cycles under tension without cracking or breaking.

8. WARRANTY :-

12 Months from the date of supply. Includes defects in material and manufacturing under normal operating conditions. Warranty does not cover damages resulting from misuse, improper handling, or exposure to conditions beyond the specified limits.

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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