

Alumix Fire Proximity Suit

Premium High-Heat Protective Wear by HiCare Protective Wear Pvt. Ltd.

HiCare Protective Wear Pvt. Ltd. presents the **Alumix Fire Proximity Suit (Model: ALUPRIME)**, engineered for extreme radiant heat environments. Designed for firefighters, furnace operators, foundry workers, and emergency responders, this suit delivers high-reflective thermal insulation, superior tensile strength, and exceptional durability.

Leading Manufacturer of Alumix Fire Proximity Suit

As a leading **manufacturer of Fire Proximity Suits**, HiCare uses advanced **ALUMIX Teteron-based aluminized fabric**, crafted through a high-purity aluminum powder deposition process. Each suit is engineered to perform reliably in high-temperature industrial zones where heat exposure can exceed safe working limits.

Our manufacturing process ensures:

- Precision-engineered multi-layer thermal protection
- High-grade craftsmanship with strong seam construction
- Compliance with global industrial safety expectations
- Long service life even in harsh conditions

Trusted Supplier of Alumix Fire Proximity Suits

HiCare supplies the ALUPRIME model to industrial sectors such as:

- Metal & Foundry Operations
- Furnace & Kiln Maintenance
- Refineries & Petrochemical Plants
- Fire Departments & Emergency Response Teams
- Heavy Industrial Manufacturing Units

As a **Fire Proximity Suit Supplier**, we ensure consistent stock availability, fast delivery, and full technical support.

Global Exporter of High-Heat Protective Suits

HiCare proudly exports the **Alumix Fire Proximity Suit** to clients worldwide. With world-class infrastructure, in-house fabrication, and strict quality control, our products meet global expectations for thermal protection, durability, and ergonomic design.

Technical Specifications of Alumix Fire Proximity Suit

Model: ALUPRIME

1. Coat

Fabric Material:

- ALUMIX (100% Tetonon)
- Warp & Weft Yarn: P20/1
- Density: 122 cm (Vertical) & 114 cm (Horizontal)
- Thickness: 0.38 mm
- Weight: 350 g/m²
- Tensile Strength: Vertical 70 kg/m² | Horizontal 55 kg/m²
- Tear Resistance: Vertical 8.0 kg/m² | Horizontal 7.5 kg/m²
- Stress Relaxation: 17% Vertical | 21% Horizontal

Alumix Layer Process:

- Thickness: 0.2 mm ± 0.05
- High-purity aluminum powder (>200 mesh)
- Aluminum powder volume: 20 PHR

Auxiliary Materials:

- Velveteen (Black)
- Brass Nickel-Plated Trigger
- Vinylon 30 Sewing Thread
- Brass Cast Metal Buckle

Sewing Construction:

- Edge sewing: 1 cm (Lapped seam)
- Inside sewing: 1 cm
- Stitch Density: 9–11 stitches/inch
- Wrist Lapel Width: Approx. 1.5 cm

Design Features:

- Raglan sleeve style
- Body in 2 pieces, sleeve in 1 piece
- Collar Lapel: Alumix (100% Tetonon)

- Outer pocket with lid
- Belt loops at sides and back
- Adjustable ALUMIX belt: 37 mm wide, length approx. 1.3 m

2. Helmet

Materials:

- FRP Outer Shell
- Hammock: Polyethylene + Nylon tape
- Headband: Polyethylene
- Anti-Sagging: Tarpaulin layer
- Sling: Brass
- Neck Guard: Alumix (Tetoron 100%)

Impact Protection:

- Against falling objects: < 4.9 kN
- Protection during fall impact: < 9.81 kN

3. Gloves

Material:

- Alumix (Tetoron 100%)

Design:

- Five-finger structure
- Additional internal and dorsal padding

4. Boots

Material:

- Compound rubber
- Knee cover: Alumix (Tetoron 100%)

Design Features:

- Sweat-proof internal structure
- Steel plate insert for puncture resistance
- Knee cover with sling belt for secure fitting

Why Choose HiCare's Alumix Proximity Suit?

- Reflects up to 90% radiant heat
- Optimized for furnace, foundry & high-heat operations
- Strong mechanical performance (tensile + tear strength)
- Ergonomic multi-piece design
- Durable stitching and industrial-grade components
- Full kit includes Coat, Gloves, Helmet, Boots