

# NXP 750 Proximity & 850 Kiln Suit

## RADIANT AND AMBIENT HEAT PROTECTION



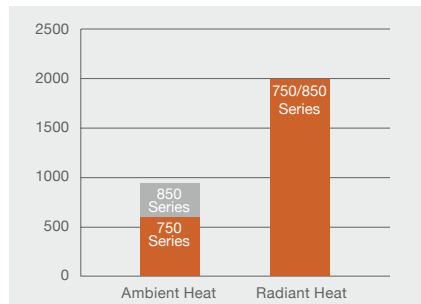
Newtex's 750 and 850 Series Suits are insulated to protect personnel working in close proximity to extreme temperatures or fire, and have an aluminized outer shell and an aluminized vapor barrier to protect against high pressure steam, vapor, chemicals, and radiant temperatures to 2000°F (1093°C). The 750 Series Suit can be used in emergency operations, and has two layers of bulk insulation to support ambient temperatures to 550°F (288°C). The 850 Series Suit is designed for use in repair or maintenance operations such as in hot ovens, and has three layers of bulk insulation to support ambient temperatures to 800°F (427°C).

**Industries:** Foundries and Casting Operations, Welding and Hot Works Operations, Glass and Ceramic Plants Production, Power Generation, Petrochemical and Refining, Laboratory and Testing Facilities

### Temperature Rating

- Short duration ambient heat up to 550°F (288°C) for 750 Series or up to 800°F (427°C) for 850 Series
- Radiant heat to 2000°F (1093°C)

Ambient heat is the equilibrium temperature in an area. Radiant heat is given off by a heat source in proximity. Duration varies depending on the amount of conductive heat transferred during the operation. **The 750 and 850 Series Proximity Suits should not be used for fire entry.**



### Features

- Aluminized Z-Flex® outer shell reflects up to 95% of radiant heat.
- Aluminized vapor barrier layer protects against steam, vapor, and chemicals.
- Layers of 1-inch fiberglass insulation provide ambient heat protection
- Fire-resistant vapor barrier lining (750 Series) or fire-resistant cotton inner lining (850 Series) for comfort.
- 1" insulated wooden soles (850 Series) for protection from hot floors.
- Complete set includes Hood, Coat, Pants, Boots, Mitts, and Duffle Bag for storage. Also available in one piece coverall style.
- Newtex Extreme Protective suits are made from Z-Flex® Multilayer aluminized fabrics, Zetex® and ZetexPlus® premium texturized fiberglass, and other high performance insulation materials to provide maximum protection from heat and fire.

*Note: The use of a Breathing Apparatus set is required for the 850 Series Suit and recommended for the 750 Series Suit.*

## NXP Fire & Proximity Suit Selection Guide

Style	Description	Ambient Heat	Total Flame*	Radiant Heat	Insulation Layers	Outer Layer	Breathing Apparatus
3000 Series	Fire Entry	1500°F (815°C)	2000°F (1093°C)	3000°F (1650°C)	8	Z-Flex® Aluminized	Required
2000 Series	Fire Entry	1500°F (815°C)	2000°F (1093°C)	N/A	8	ZetexPlus®	Required
➤ 850 Series	<b>Kiln</b>	<b>800°F (427°C)</b>	<b>N/A</b>	<b>2000°F (1093°C)</b>	<b>6</b>	<b>Z-Flex® Aluminized</b>	<b>Required</b>
➤ 750 Series	<b>Proximity</b>	<b>550°F (288°C)</b>	<b>N/A</b>	<b>2000°F (1093°C)</b>	<b>5</b>	<b>Z-Flex® Aluminized</b>	<b>Recommended</b>
550 Series	Approach	200°F (93°C)	N/A	2000°F (1093°C)	2	Z-Flex® Aluminized	Optional
150 Series	Approach	200°F (93°C)	N/A	2000°F (1093°C)	2	Z-Flex® Aluminized	Not required

\*N/A indicates suit is not designed for the specified use. For example, the 150 Series is not designed for Total Flame/Fire Entry.

# Specifications

## 1. Type of Suit

Radiant and Ambient Heat Protective Proximity Suit and Kiln Suit

## 2. General Description

Insulated Proximity and Kiln Suits are designed to protect personnel working in proximity to extreme temperatures, fire, high radiant heat, steam, vapor, or chemicals. 850 Series is designed for use in maintenance operations such as in hot ovens or kilns.

## 3. Material

- A. 750 Series:** 5 layer construction includes: Aluminized Z-Flex® outer shell, lightweight aluminized vapor barrier, two layers of 1-inch fiberglass insulation, neoprene-coated flame-resistant cotton lining.
- B. 850 Series:** 6 layer construction includes: Aluminized Z-Flex® outer shell, aluminized vapor barrier, three layers of 1-inch fiberglass insulation, flame-resistant cotton lining.

## 4. Temperature Rating

Short duration ambient heat up to 550°F (288°C) for 750 Series or up to 800°F (427°C) for 850 Series. Radiant heat to 2000°F (1093°C).

## 5. Construction

- A. Hood:** Built-in shell for structural support. Ratchet-adjustable hard cap with speedy clip for support.  
750 Series: Full shoulder length drape and adjustable underarm straps. 6" x 9½" gold window and aluminum retainer.  
850 Series: Inner drape seals and adjustable underarm straps. Hardened aluminum window frame with 2 tempered glass lenses and 2 gold plated lenses for thermal protection. Designed for use with an air mask.
- B. Coat:** Double storm fly front. Flame seal with drawstring at coat bottom. Breathing Apparatus accommodation.
- C. Pants:** High waist with 2" wide adjustable suspenders and adjustment straps on leg bottoms.
- D. Boots:** Designed to fit over work shoes. Adjustment straps and ZetexPlus® binding. 750 Series has leather-insulated sole. 850 Series has wooden, anti-skid sole, heavily insulated boot cover with zipper and storm fly, and inside toe and ankle adjustment straps.
- E. Mitts:** ZetexPlus® palm and thumb. Z-Flex® Aluminized back and cuff. One piece coverall styles (760 and 860 Series) also available.

## 6. Size and Weight

- A. Weight:** 750 Series Suit: Weight: 36 lbs (16.3 kg)  
850 Series Suit: Weight: 43 lbs (19.5 kg)
- B. Size:** Available in the following sizes:  
L/XL (41"-47" chest, 37"-48" waist)  
Custom sizes available for additional charge

## 7. Testing & Certifications

Z-Flex® Aluminized Fabrics:

- EN366 Radiant Heat
- EN367 Convective Heat
- EN532 Limited Flame Spread
- EN348 & ASTM F955 Molten Metal
- EN388 Abrasion Tear Resistance

All Materials:

- NFPA 701 Flame Propagation
- FED191/5903.1 Flame Resistance

Lining & Insulation:

- ASTM D6413 Flame Resistance (lining)
- ASTM E84 Surface Burning Characteristics (Insulation)

### WARNING:

This product should only be used by qualified personnel. Product information provided herein is based on tests performed in specific conditions which may differ from the user's operating environment. It is the user's sole responsibility to determine whether this product is appropriate for the intended use. Newtex is not liable for any damage, loss, injury or death resulting from the use of this product, and makes no guarantees or representations with respect to these products and/or their fitness for any purpose.



750 Series

860 Series

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EXTREME PROTECTIVE

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For over 30 years, Newtex Industries has been a trusted leader in high temperature protective clothing and equipment. Our protective apparel, gloves, mitts, and fire curtains are made from performance Zetex®, ZetexPlus®, Z-Flex®, and Aramid fabrics to resist temperatures up to 2000°F while providing outstanding protection from heat, fire, sparks, and molten splash.



Newtex 2000 Series  
Fire Entry Suit