

# NXP 750 Kiln Suit

## RADIANT AND AMBIENT HEAT PROTECTION



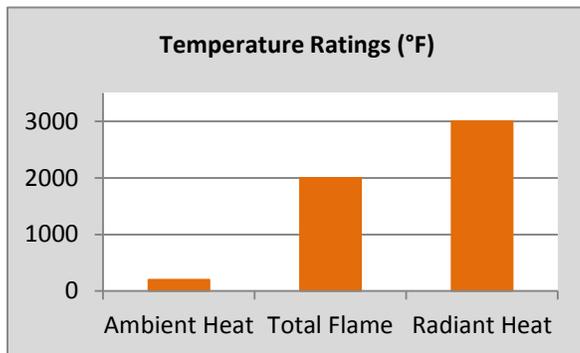
Newtex's NXP Kiln 750 suits are insulated to protect personnel working in close proximity to extreme temperatures or fire. The 750 Kiln Suit is commonly used in maintenance operations. Each suit has an aluminized outer shell and an aluminized vapor barrier to protect against high pressure steam, vapor, chemicals, and radiant temperatures up to 3000°F (1650°C). The NXP 750 Insulated Kiln Suit provides superior protection from possible flashover scenarios and can be used safely for short-duration fire entry emergencies.

**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 800°F (430°C)
- Total Flame to 2000°F (1093°C)
- Radiant heat to 3000°F (1370°C)

Ambient heat is the equilibrium operating 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.



### Features

- Aluminized Z-Flex® outer shell reflects 95% of radiant heat
- Aluminized vapor barrier layer protects against steam, vapor, and chemicals
- Superior Thermal Protective Performance (TPP)
- Layers of 1-inch fiberglass insulation for ambient heat protection
- Fire-resistant vapor barrier lining
- Complete set with Hood, Coat, Pants, Boots, Mitts, and Foot Locker Box or Duffle Bag for storage. Also available in one piece coverall style.

*Note: The use of a Breathing Apparatus set is required.*

This suit is not intended for fire entry but can provide protection from brief engulfment in the case of unexpected flashover.

### Protective Suits Selection Guide

The 750 Series is part of Newtex's Extreme Protective Line.

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® Aluminization	Required
2000 Series	Fire Entry	1500°F (815°C)	2000°F (1093°C)	N/A	8	ZetexPlus®	Required
750 Series	Insulated Kiln	800°F (430°C)	2000°F (1093°C)	3000°F (1650°C)	5	Z-Flex® Aluminization	Required
750 Series	Insulated Proximity	800°F (430°C)	2000°F (1093°C)	3000°F (1650°C)	5	Z-Flex® Aluminization	Required
550 Series	Proximity	200°F (93°C)	N/A	3000°F (1650°C)	2	Z-Flex® Aluminization	Optional
150 Series	Proximity	200°F (93°C)	N/A	3000°F (1650°C)	2	Z-Flex® Aluminization	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 Kiln Suit

## 2. General Description

Insulated Kiln Suits designed to protect personnel working in proximity to extreme temperatures, fire, high radiant heat, steam, vapor, or chemicals.

## 3. Material

Five 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.

## 4. Temperature Rating

Short duration ambient heat up to 800°F (430°C), radiant heat to 3000°F (1650°C).

## 5. Construction

**A. Hood:** Ratchet-adjustable hard cap with speedy clip for support. Full shoulder length drape and adjustable underarm straps. Hardened aluminum window frame with clear tempered lime glass lenses for superior temperature resistance. The clear lenses are standard, but gold plated lenses can be substituted for an additional charge.

**B. Coat:** Double storm fly front. Flame seal with drawstring at coat bottom. Pouch to accommodate SCBA breathing apparatus. ZetexPlus elbows patches for improved abrasion resistance.

**C. Pants:** High waist with 2" wide adjustable suspenders and adjustment straps on leg bottoms. ZetexPlus knee patches for improved abrasion resistance.

**D. Boots:** Designed to fit over work shoes. The boots feature adjustment straps and ZetexPlus® binding. Wooden soles for longer duration heat protection.

**E. Mitts:** ZetexPlus® palm and thumb. Aluminized back and cuff.

**Coverall Option:** One piece coverall styles (760 Series) also available. The breathing apparatus accommodation is not available on the 760 series. The 760 Suit is intended for use with air lines.

## 6. Size and Weight

One size fits most.

Approximate weight: 48 lbs (22 kg).

## 7. Certifications

Made from Z-Flex® and ZetexPlus® fabrics. The outer Z-Flex® layer is NFPA 701 / UL 214 certified and meets the following standards:

- EN 532: Limited Flame Spread
- EN 367: Convective Heat
- EN 366: Method B Radiant Heat
- EN 407: Molten Metal Splash



### 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.



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Since 1978, Newtex has been a pioneer and leading global producer of high temperature textiles for thermal management and fire protection. Our comprehensive product line includes the original Zetex® and ZetexPlus® brands, as well as the recently introduced Z-Flex® line of multilayer aluminized fabrics – the most advanced radiant protection ever developed. We are an ISO 9001:2008 certified vertically integrated manufacturer, coater, and laminator of an impressive portfolio of insulation and fire resistant fabrics, tapes, ropes, tubing, and glass yarn, which support a broad range of applications that include fire safety, heat shielding, welding protection, insulation systems, expansion joints, and gaskets.