

# X50

## SHORT DURATION FIRE ENTRY SUIT

The X50 Short Duration Fire Entry Suit is a heavily insulated aluminized suit designed to protect from extreme heat, sparks, and brief periods of engulfment or flashover.

The suit features a Z-Flex® aluminized outer shell which reflects 95% of radiant heat and withstands radiant temperatures up to 3000°F (1650°C). In addition to providing outstanding protection, Z-Flex® is also the most durable aluminized material available and will not de-laminate under even the most demanding conditions. A foil layer beneath the outer shell acts as a secondary defense against extreme temperatures, two layers of fiberglass insulation provide protection even during extended exposure, and a neoprene vapor barrier for protection from steam, gas, and vapor.

This suit can be used in a wide range of industries including foundries, petrochemical plants, processing facilities, and other environments where workers are exposed to extreme temperatures.



### Ensemble Features

#### Jacket

- Raglan sleeves
- Double storm fly
- Pouch for SCBA
- Inner cinch for tight seal

#### Pants

- Easy entry design
- Suspenders for adjustable length

#### Boots

- Easy-on design
- For wear over work boots

#### Hood

- Hard cap with ratchet adjustment\*
- Full shoulder length drape
- Dual-layer gold coated glass lenses
- Rounded bib

#### Mitts

- Mitts with an aluminized back
- ZetexPlus palm

#### Also Included

- Ballistic nylon duffle bag
- Nomex® balaclava

### Suit Construction

#### Radiant Shell

Z-Flex® A-601 Aluminized Texturized Fiberglass

#### Insulation Layers

Z-Flex® AF F-628 Foil & Fiberglass Insulation

#### Thermal Liner

FR Neoprene

### Suit Weight

Jacket & Pants Only\*: 28 lbs (12.7 kg)

Total Ensemble\*: 46 lbs (20.9 kg)

\* Weights are approximate. Actual weights may vary.

### Suit Sizing

**One Size Fits Most**

	User's Chest	User's Waist	Jacket Length	Sleeve Length	Pant Inseam
	Up to 50" / 127 cm	Up to 44" / 112 cm	33" / 84 cm	35" / 89 cm	30" / 76 cm

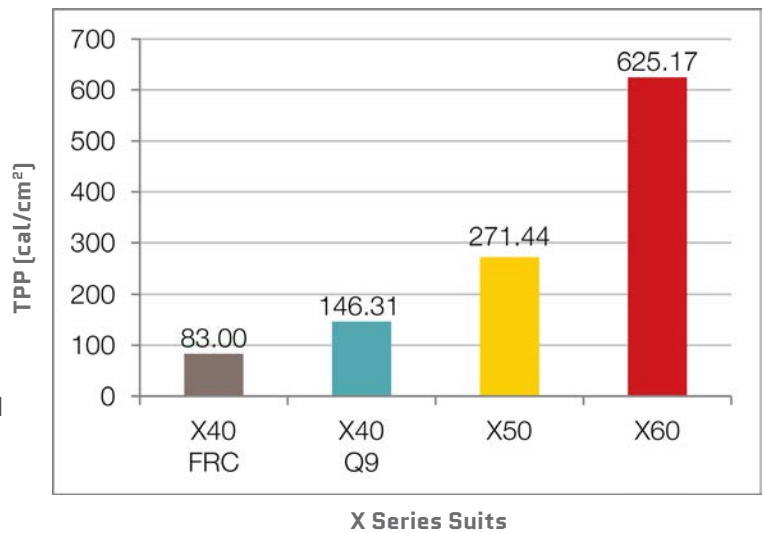
\*Hard cap meets ANSI-Z89.1-2009 impact resistance tests.  
\*\* 2XL and custom sizes are available upon request for an up-charge.

The X Series suits incorporate the latest apparel design features to provide outstanding flexibility, dexterity, and comfort while maximizing safety and efficiency. With more than a dozen options, we are certain that you will find an X Series suit that meets your requirements.

When selecting a proximity or fire entry suit, it is important to consider the convective, conductive, and radiant heat risks in your work area and the length of exposure to that heat. The advanced aluminized outer shell of the X Series suits provides the ultimate protection from radiant energy, the heat transmitted from all hot objects. The X Series also provides protection from conductive and convective heat. The level of conductive and convective protection increases with each suit as you move from the lightest suit to the heaviest.

The Thermal Protective Performance (TPP) graph above illustrates the relative protective values of the X40, X50, and X60 suits in relation to each other. The TPP test exposes samples to convective and radiant heat sources and measures the heat transferred through the test specimen to calculate a tolerance time to 2nd degree burn. The levels of exposure are extreme and not representative of most real world scenarios. Real world industrial maintenance and emergency response environments are likely to be unpredictable and vary from test conditions. We recommend only professionally trained industrial workers and first responders use these suits under established safety protocols.

### Thermal Protective Performance [TPP]



### Testing & Certification

The X50 Short Duration Fire Entry Suit meets the **ISO 11612** test standard. The Z-Flex® outer shell also meets or exceeds the additional specifications listed in the table below.

Test Description	Standards
Radiant Heat	ISO 6942, EN 366, ASTM F1939
Convective Heat	ISO 9151, EN 367
Limited Flame Spread	ISO 15025, EN 532
Molten Metal	ISO 9185, EN 348, ASTM F955
Tear Resistance	ISO 13937, EN 388

\*Test results are available upon request. Please email [tech@newtex.com](mailto:tech@newtex.com)



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For nearly 40 years, Newtex has been a pioneer and leading global producer of high temperature materials and engineered solutions for thermal management and fire protection. Headquartered in Rochester, New York, Newtex is an ISO 9001:2015 certified, vertically integrated manufacturer of an impressive portfolio of textiles and fabricated systems for insulation and fire containment. Globally recognized textile brands include ZetexPlus®, Z-Flex®, and Z-Block™. Newtex is a minority owned, veteran-managed business that has served the US Military and leading global industries since 1978. Newtex products are proudly made in the USA.

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