



GSA CONTRACT
GS-07F-0566T

FROM CORE SURVIVAL AND
ADVANTAC TECHNOLOGIES

PROTECTIVE THERMAL UNDERGARMENT

Advantac Technologies has teamed with Florida-based Core Survival to create an innovative breakthrough in thermal protection. The Protective Thermal Undergarment (PTU) is a fire-retardant yet breathable first layer garment specifically designed for wear with flight clothing and anti-exposure suits.

This lightweight, one-piece undergarment is easily donned and provides maximum range of motion while reducing thermal burden for any mission. The FR-PTU allows easy layering, enhancing comfort and thermal protection when worn under a NOMEX® flight coverall or NOMEX® dry suit ensemble.

Made with a durable and antimicrobial four-way stretch Polartec® Power Stretch® FR with NOMEX® fabric, the FR-PTU has a smooth, water repellent finish that resists wind, moisture, and abrasion. The NOMEX® blend fabric provides fire-resistant protection when worn under NOMEX® clothing.

The FR-PTU is machine washable, easy to maintain, and comes with a unique zipper configuration to accommodate both gender in-flight aircrew relief systems.

MADE WITH



POWER STRETCH
with NOMEX®

Polartec® Power Stretch® FR with NOMEX® is the standard for fire resistance, lightweight warmth, and breathability. It's also non-pilling and maintains its insulating ability after repeated laundering.

- 70% Nomex® N303, 24% Nylon, 6% Spandex
- Thickness: 2.692 mm
- Durable, high performance 4-way stretch
- Wind, water, and abrasion resistant
- Antimicrobial properties prevent bacterial growth and odor
- Breathable, helping to wick perspiration

FR-PTU FEATURES

The unisex FR-PTU hugs the torso, arms, and legs, giving a smooth, low profile finish. Innovative dual zipper design makes donning, doffing, and inflight relief easy and convenient.

- Made of thin, lightweight Polartec® Power Stretch® FR, featuring fire-retardant Nomex®
- Two-way torso zipper is offset to eliminate zipper-on-zipper irritation
- Two-way groin zipper zips front to back for inflight relief and accommodates both genders
- NOMEX® neck, wrist, and ankle cuffs
- Unisex design available in 6 sizes (XS - XXL)

FR-PTU



FULL TWO-WAY GROIN ZIPPER
Groin zipper zips completely front to back from either direction for easy inflight relief for both men and women.

FLEXIBLE NOMEX® CUFFS
Neck, wrist, and ankle cuffs made from soft and flexible NOMEX® for a snug fit with added FR protection.



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OFFSET TWO-WAY TORSO ZIPPER
Unique design eliminates zipper-on-zipper irritation for a more comfortable fit.

THIN & LIGHTWEIGHT DESIGN
Thermal, water-repellent, and fire-resistant without being bulky or uncomfortable. Fits under any flightsuit or ensemble.



FR-PTU SIZING

To determine best size, first find height, then weight on the size chart. There are overlapping sizes in categories to accommodate those with a height/weight ratio that does not fall into the same size category. Example: a 5'6" person weighing 130 pounds would order Small, whereas a 5'6" person weighing 155 pounds would order Medium.

The four-way stretch material has considerable give and allows flexibility in fitting a variety of body shapes and sizes.

PART NUMBER	GARMENT SIZE	HEIGHT	WEIGHT (LBS)
FR-PTU-100-XS	X Small	5'0" - 5'3"	95 - 125
FR-PTU-100-S	Small	5'3" - 5'6"	115 - 145
FR-PTU-100-M	Medium	5'6" - 5'9"	135 - 165
FR-PTU-100-L	Large	5'9" - 6'0"	155 - 185
FR-PTU-100-XL	X Large	6'0" - 6'3"	195 - 225
FR-PTU-100-XXL	XX Large	6'3" +	215 - 250+