

New

Thermal Layering System



Anti-exposure suit



Thermal suit

Thermal undergarment (Thin model)



Thermal undergarment (Thick model)



Glove (5 fingers model)



Glove (mitten model)

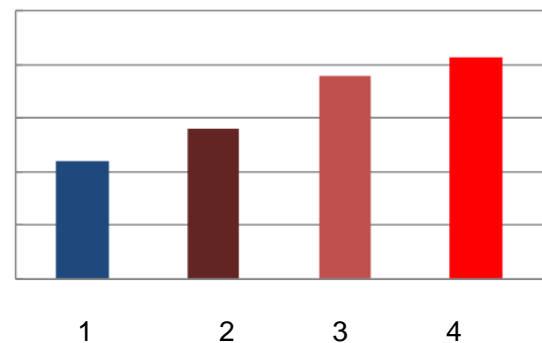
STRONG POINTS

Heat retaining: Very Good

- 2 times of heat retaining than present (with thick thermal undergarment)

Comfort: Very good

- Use latest water proof porous membrane for anti-exposure suit
- Using fire resistance, moisture - absorbing, heating, dry as quickly materials for undergarments
- 3-D processing , flatness sawing



1. Present layering system + cotton
2. New layering system + cotton
3. New layering system + thermal under (thin)
4. New layering system + thermal under (thick)

Experimental data from Aeromedical lab in JASDF



— Anti-exposure suit

■ Comfort : Very Good

- Draping for seated silhouette of F-15

■ Flexibility : Very Good

- Over 30% than present

■ Water proof : Very Good

- Zero porosity of latest water proof porous membrane
- Include with water proof socks

■ Abrasion - resistant : Very Good

- 2 times of abrasion resistant
(More than MIL-C-85637)



— Thermal suit

■ Comfort : Very Good

- Draping for seated silhouette of F-15
- Increasing texture of lining cloth
(Tetoron + mixed spinning with cotton)
- Prevention sticking to the arm (Adding mesh textile)
- Similar design of pilot suit

■ Heat retaining : Very Good

- Lighter and increase heat retaining under the water pressure
caused by switch to hollow fiber from padding



— Undergarment

■ Comfort : Very Good

- Fire Resistant
- Moisture absorbing, dry quickly, heat retaining
- Draping for seated silhouette of F-15
- Smooth sewing (Flat seam)
- Possible to control warmth and cool by thin or thick
model depends on environment



Thermal
undergarment
(Thick)



Thermal
undergarment
(Thin)

— Glove

■ Working property : Very Good

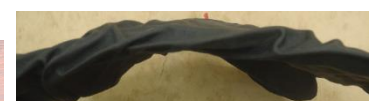
- 5 fingers model for working property

■ Heat retaining : Very Good

- Improve heat retaining by layer of
the air



5 Fingers



Mitten (compact mode)



Mitten (inflated)