**Brief Write-up for**

**LIGHT WEIGHT FIRE PROTECTIVE SUIT**

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Light weight fire proximity suit

Light weight fire approach suit

**DESCRIPTION:**

Light weight fire approach suit and fire proximity suit are multi-layered suits used for fire-fighting & rescue operations. Light weight fire approach suit consists of three layers made up of high performance blended fibres:

* Outermost layer : Blended woven fabric(Indian Patent no-279558)
* Moisture barrier : Coated blended fabric
* Innermost layer : Fire Retardant cotton fabric

The weight of complete fire approach and proximity suits is approx 6.4 kg and 7.2 kg respectively. Both the suits have five components viz; Jacket with sleeves for protection of the torso portion including the arm but excluding the hands, Trousers for protection of legs excluding the feet, a pair of Gloves, a pair of Boots, Hood incorporating helmet and visor.

  

 

COMPONENTS OF LIGHT WEIGHT FIRE SUITS

**Salient features:**

* 30% lighter in totality over the existing aluminised suit.
* Light weight fire approach suit withstands for 10 minutes against the exposure of fire source of 50 liters aviation turbine fuel at 5 meter distance during live fire test trial while fire proximity suit withstands for 260 seconds at 3 meter distance during the same live fire test trial.
* Excellent maneuverability and freedom of movement to the fireman.
* Meets the performance requirements of NFPA 1971 and JSQR 8415-007 except breathability in moisture barrier fabric.

**Possible Application Areas:**

These suits can be used in fire fighting applications in Army, Air force & Navy, civil fire services, oil rig platforms & oil depot, ONGC, steel, plastic & chemical industries etc.