



SECUREFIRE SAFETY INDUSTRIES PVT. LTD.



AN DRDO AWARDED & PATENTED INDEGENOUS TECHNOLOGY IN MATERIAL SCIENCE



DIPP2629/IMB









A NANO-TECHNOLOGY BASED

ADVANCED TECHNICAL TEXTILE FABRIC





ADVANCE TECHNICAL TEXTILES





STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR

















सिक्योरफायर – सुरक्षा की नई परि

SECUREFIRE

- Formed on 27.12.2016; DIPP Certified in June 2017 (DIPP/IMB 2629)
- Patented technology backed
- DRDO awarded for winning Open National Challenge
- Approved and Funded by DSIR
- Approved & Supported BY NRDC
- Part of Top 50 Innovative companies under IIGP-2 Selected by IIM-A
- Replacing the imported Fire Entry Suit with More Than 2 Times
 higher efficient Indigenous Technology & Patented Fire Entry Suit



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About Us 2

SECUREFIRE

- A complete range of fire fighting suit
- 1. TiFi Fire Entry Suit: EHF SERIES
- 2. BAMOORA Aluminized Fire Fighting Suit
- 3. Metara Fire Fighting Suit
- Products are rigorously tested as per EN Standards by ATIRA
- Technology upgradation and tested at various level by IIT-BHU, IIT-K
- Products live field Demonstration Done at State Level Fire Brigade
 Divisions of: Bihar, Uttar Pradesh, Harayana and Gujarat
- Other States who shown interest are: Goa, Rajasthan, Uttra Khand and Chhatisgarh



Our Promise: Research Based Innovative Solutions for Un-Compromised Safety of Fire Fighters



Extra Edge:

Securefire Testing & Trial

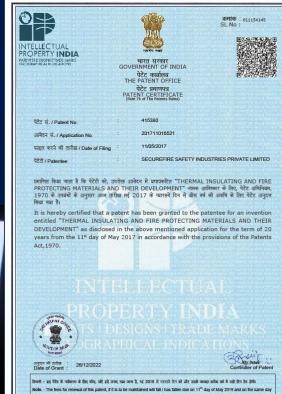
- In-House Testing & Trial Facility
 - Each lot of material got tested in-house for fire suit
 - Rigorous trials are done on face shield for eye protection
 - Each fresh lot for shoe material got tested
- Strong Technical Advisor Board
 - IIT Kanpur, IIT-BHU, IIT-Roorkee Professors are on board

Competitive Edge:

- Patented Technology:
 - Indian Patent No.: 201711016521A
 - PCT/IB2018/053294
 - International Patent Filed in:

USA, CANADA, CHINA, UAE & SAUDI-ARABIA





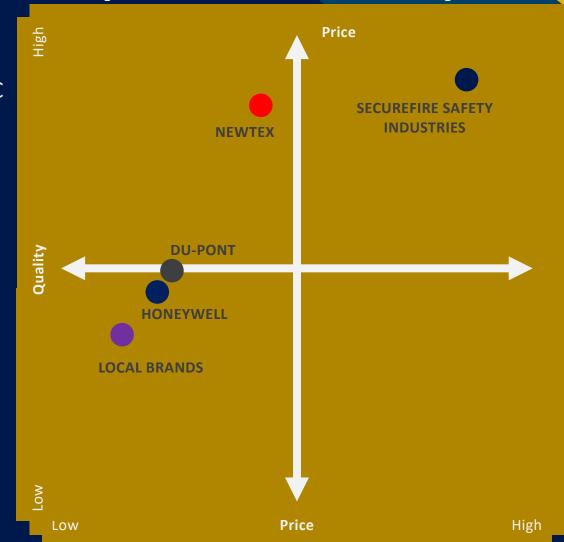
Value Proposition



TiFi Supported Products:

- i. Light weighted product
- ii. 4 times longer Protection duration from contact heat of 500°C
- iii. 2 Times longer protective against world class solution tested at 84kw/m2 Flux
- iv. 100% Non-flammable Innovative material
- v. Non-shrinkage Innovative material while on fire
- vi. Biological hazard free-Tested & Certified
- vii. Non-Cancergenic-Tested & Certified
- viii. Can support from Sub-Zero to 1000°C Temp.
- ix. Buy-Back Facility for used product and replace with new one

Competitive Land-Scape





	MDE	TITI	VF.	FD	GF
CO	AIL F		VL	LU	UL

Temperature Inside the suit after test

Life Saving Heat Sensor Indicator

Flame Proof Eyes Protection Solution

Use Comfortability of the suit

Sub Zero Temp Performance

Special Shoe, additional to shoe cover

Carcinogenic Test

Biological Test

Limiting Oxygen Index of the suit

Limiting Oxygen Index of the TiFi

Field Trials

Buy Back Facility

International Solution Newtex X-60
international Solution Newtex X-60

TiFi Fire Entry Suit-EHF (Indigenous)

Details

84kw/m2 Heat Flux **Testing Standard**

84kw/m2 Heat Flux

Time duration for second burn stage

300 seconds +

52 deg cent.

31.11

55.12

Successfully Done with State Fire Brigade of: Bihar/Uttra Pradesh/ Gujarat/Harayana Oil & Gas Industries:

OIL INDIAL LTD (along with IOCL, BCPL, DNP Ltd, AGCL, **BVFCL)**

150 seconds

57 deg cent.

X

X

X

X

Only Shoe Cover available

X

X

X

X

X

Pics of Live Fire Demonstration

State Fire Brigades of Uttar Pradesh, Bihar, Gujarat & Haryana & Oil India Limited-assam



















User Experience-TiFi Fire Entry Suit





FR DANGUREE FOR INDIAN ARMY







ARMED DANGUREE

FIRE-PROTECTIVE





BAMOORA FIRE FIGHTER ALUMINIUM SUIT





UTTAR PRADESH FIRE BRIGADE

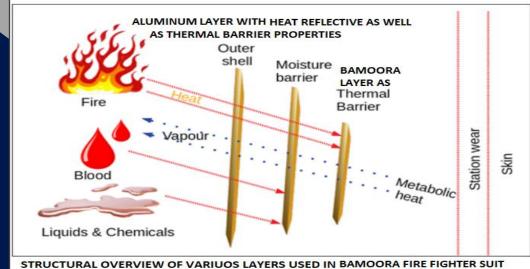


HARYANA FIRE BRIGADE-**FARIDABAD**



SOLE AFTER 6 LIVE TRIAL ON FIRE





Sr. No.	Test Description of the Suit Assembly	Standards	
1	Radiant Heat @ 40KW/MT 2	EN ISO 6942	
2	Convective-Heat@80KW/MT2	EN ISO 9151	
3	Limited Flame Spread: A	EN ISO 15025	
4	Limited Flame Spread: B	EN ISO 15025	
5	Limited Flame Spread: Seam	EN ISO 15025	
6	Molten Iron Splash	EN ISO 9185	
7	Contact Heat @500°C	EN ISO 12127	
8	Heat Resistance@260°C	EN ISO 17493	
10	Tear Resistance (10N)-Outer Layer	EN ISO 13937	
11	Tensile Strength(300N)-Outer Layer	EN ISO 13934	
12	Dimensional Change	ISO 5077	
13	Bursting	ISO 13938-1	
14	Seam Strength	ISO 13935-2	







TECHNOLOGY AWARDED BY DEFENCE MINISTER OF INDIA

For Winning National Open Innovation Challenge Organized By DRDO

Approved By Cfees For Further Deployment

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Thank You.

Lets Empower Our Brave Fire-Fighters With World's Best TiFi Fire Entry Suit-EHF SERIES