

Fire Found Its Match

INSERATM
FIRE WRAPS

DESIGN COMFORT INSULATION



INSERA™ - FIRE WRAPS

- **INSERA™** Fire wraps is a fire rated Wool, wrapped in fire resistant bags which gives good fire performance.
- It is having Good fire resistance rating, low thermal conductivity, light weight & superior corrosion resistance.
- As the core material is wrapped & not adhered to the outer material, the wrapping and slumping of fire wraps over the ducts can be done easily.
- It is completely inorganic & Asbestos free.

Brief Description	Fire rated wool is wrapped in Fire-Resistant stratified layer of glass fibre with aluminum foil. This specific grade is used for fire applications.
Material Type	Fire resistant
Color	Silver
Applications	Kitchen exhaust duct, Tanks containing flammable fluids, Cable trays insulation, Fire wall of data centers & server room

STANDARD DIMENSIONS :

Thickness (mm)	Density (kg/m3)	Length (m)	Width (m)
25	96	2 or 6	0.610

CHEMICAL COMPOSITION :

Material	Alumina	Silica	Zirconium	Iron Oxide	Titanium Dioxide	Leachable Chloride	Other
Chemical Composition for RT (%)	41-48	49-58	0-7	0.1-Max	0.3-Max	0.002-Max	1-Max

TECHNICAL DATA (CORE MATERIAL) :

Surface Burning Characteristics	Flame Spread index (FSI): 25 Max. Smoke Developed Index (SDI): 450 Max. Fire Classification: Class A	} As per ASTM E 84, NFPA 90A, 90B & Life Safety Code 101
Reaction to Fire Tests	Non-combustible material Fire Classification: Class A1	
Fire Resistance Rating	120 minutes	} As per ASTM E119
Fibre Diameter	3 Microns	} As per IS 15402/IS 14656

FEATURES :

- Excellent thermal & chemical stability
- Light weight
- Good fire rating
- Low thermal conductivity
- Resistant to thermal shock
- Good thermal & fire property
- Excellent corrosion resistance
- Non-combustibility
- Asbestos free
- Easy to install in critical areas due to its flexibility

INSERA™ FIRE WRAPS APPLICATION AREA :

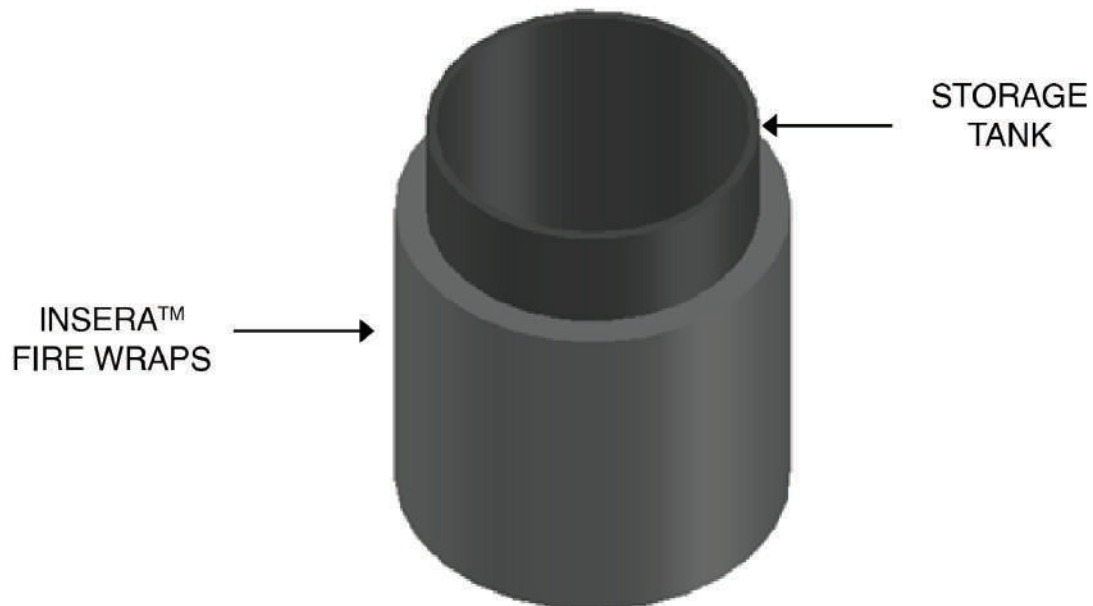
KITCHEN EXHAUST DUCT :

- Kitchen exhaust ducts are used to release grease, smoke and other toxic gases from cooking equipments to outside of a building in order to maintain indoor air quality. Commercial kitchens may have hood over the cooking area and due to its constant exposure to flame and smoke, it gets heated up. A flame flares up on the stove and gets in contact with hood. Since the exhaust fan is continuously drawing air into the hood through filters and duct, it will also draw flame along with it.
- These air will have grease residue and will act as a fuel and causes fire inside the duct which will eventually pass into the exhaust fan connected to motors & electrical wiring causing them to ignite.
- **INSERA™** fire wraps are wrapped over these ducts to resist fire spread for specific period of time.
- **INSERA™** fire wraps has very low smoke developed index and flame spread index which complies with international standards.



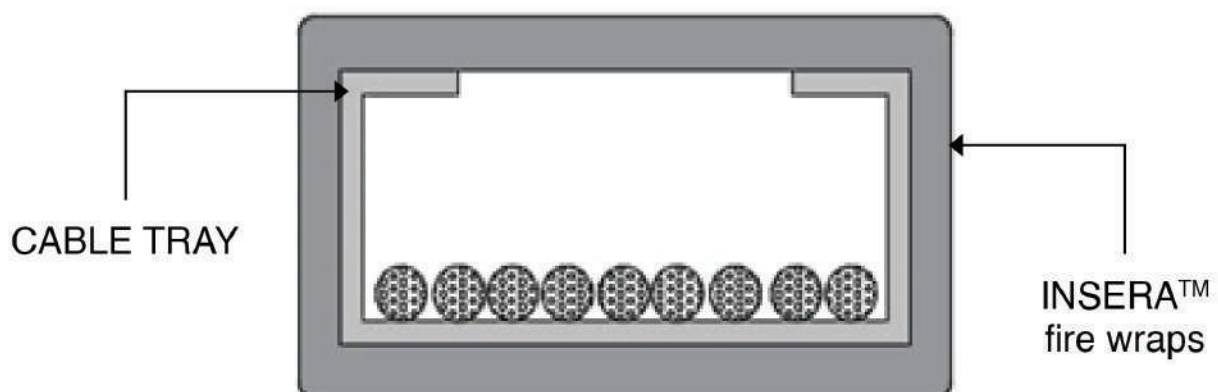
TANKS CONTAINING FLAMMABLE FLUIDS :

- Sometimes storage tanks are used to store flammable fluids. Storage tanks can be either moving or stationary. These fluids are very prone to fire hence it becomes very important to safeguard the storage tanks from fire.
- **INSERA™** fire wraps are wrapped over these Storage tanks to prevent stored fluids from catching fire.



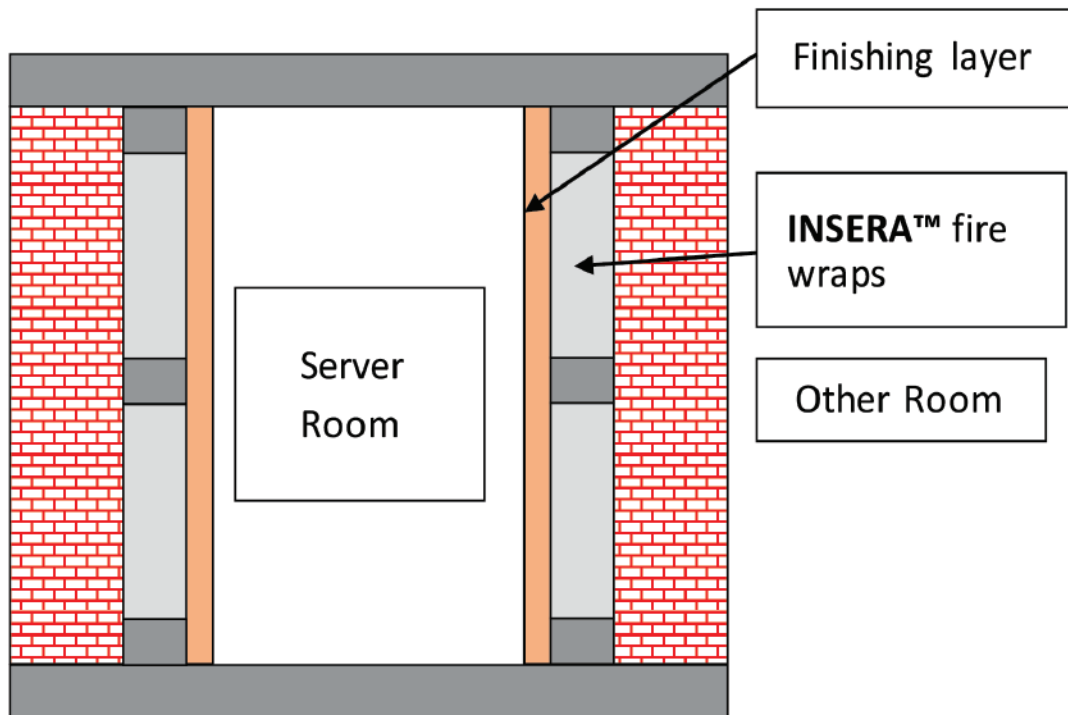
CABLE TRAYS :

- Cable trays are a mechanical support system running overhead or underfloor which are used to support electrical cables used for power distribution, control, & communication.
- As these cables are used to transfer high amount of electric power there are chances of short circuit which may lead to fire.
- Also the cables may catch fire due to any external cause of fire from the surrounding, which may create a hazardous situation.
- **INSERA™** fire wraps are wrapped over these cable trays to prevent spreading of fire from cables to surrounding or vice versa.

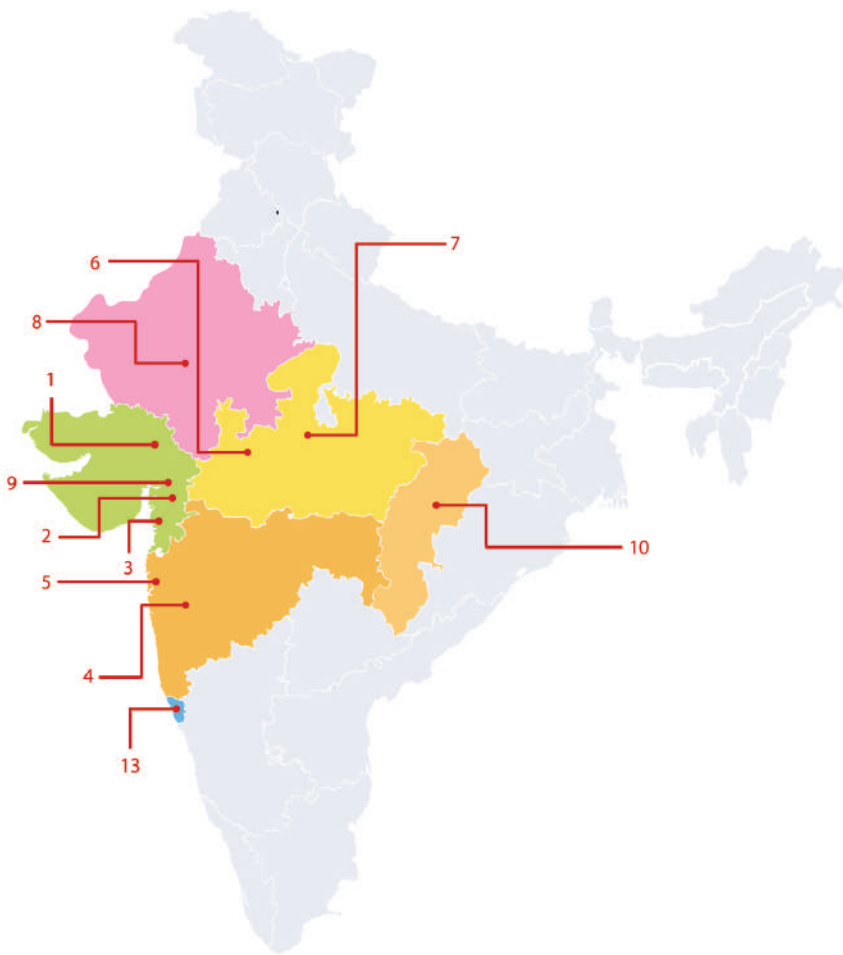


FIREWALL OF DATA CENTRES/SERVER ROOM :

- Server room is any space provided in a business that is devoted to storing data storage servers and computer networking devices.
- Server rooms are kept to be fire safe as there are very important data stored in storage devices. If these data is lost due to any hazardous incidents of fire, it would be a huge loss to the business.
- **INSERA™** fire wraps are noncombustible & posses good fire resistance rating, can withstand fire and also sustain high temperatures shall be fixed on the wall of server room to make it fire safe.



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