



TYCON: PANI-TYRE DUST AS A CONDUCTIVE POLYMER FOR BOMB SENSOR

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GENERAL INFORMATION:

Polyaniline is among a family of conductive polymers. Polyaniline can be configured to conduct across a wide range, from being utterly non-conductive for insulation use to highly conductive for other electrical purposes. Tyre dust is use as a reinforcing fillers due to high in carbon black, which act as filler. An electronic nose is a device intended to detect odors or flavors.

Over the last decade, "electronic sensing" or "e-sensing" technologies have undergone important developments from a technical and commercial point of view. The expression "electronic sensing" refers to the capability of reproducing human senses using sensor arrays and pattern recognition systems.

Market potential of the invention:

Custom department

Prevent the smuggle of explosive material

Police department

Useful especially when road block

Airport

Prevent the terrorizer among the passenger

Post-office

Prevent from delivery illegal explosive material

Household

To monitor the safety in the house area

NOVELTIES :

- ✓ Green - technology.
- ✓ Easy to carry & convenient to use.
- ✓ Reduce tyre dust as waste to landfill.
- ✓ Long life span & easy to reuse.
- ✓ Rapid, convenient, robust and clean technology for bomb detection.

FLOW CHART OF TYRE DUST PROCESSING TO CONDUCTIVE POLYMER

