

# Nega-Stat®



by Barnet

## A new standard in static dissipative yarn

### What is Nega-Stat.....

Nega-Stat by Barnet is a fine filament bi-component yarn. Each filament has a unique, patented, trilobally shaped conducting core that is surrounded by a sheath of polyester.

### What does Nega-Stat do.....

Nega-Stat by Barnet provides optimum antistatic protection in grounded and ungrounded applications according to end-use specifications.

### Nega-Stat is unique.....

The outstanding static dissipative performance of Nega-Stat is provided by the unique trilobal conducting core. The outer sheath of polyester provides exceptional durability to wear, washing, sterilization and chemical attack.

### Where is Nega-Stat used.....

Because of its unique core construction Nega-Stat is used in a wide range of industrial applications in both grounded and ungrounded situations.

### How is Nega-Stat available.....

Nega-Stat is available as a filament yarn in the following counts:

dtex 39f6	<=>	den 35f6
dtex 78f12	<=>	den 70f12
dtex 156f24	<=>	den 140f24



### Nega-Stat applications:.....

- Industrial Safety
  - Container Bags (FIBC), Conveyor Belts, Cables, Filters
- Protective Garments
  - Clean Rooms/Areas, Paint Shops, Hazardous Environments, Medical Clothing, Electronics & Pharmaceuticals, Volatile Environments, Food Processing
- Automotive Upholstery
- Copier Brushes
- Asthma Bedding and Upholstery
- Comfortable Apparel
  - Hosiery, Lingerie, Outerwear



Nega-Stat



Competitive Fibers



## How is Nega-Stat used.....

Nega-Stat is introduced selectively in grid or stripe patterns in non-conductive materials to provide effective static dissipation for the life of the product.

## How does Nega-Stat work.....

The unique trilobal conducting core of Nega-Stat neutralizes the surface charges on the base material by induction and dissipates the charge by conduction when grounded or when ungrounded by airionisation, called Corona-discharge.



## In brief.....

- Whilst other conducting threads work by conducting electric charges along the surface, Nega-Stat works by inducing charges into its unique trilobal carbon core.
- The unique trilobal carbon core in Nega-Stat acts much like a lightning conductor attracting the charge into the core.
- The trilobal carbon core produces a "field shielding" effect causing residual charges on the surface by the Nega-Stat thread.



## Grounded or ungrounded.....

Materials containing Nega-Stat threads do not necessarily require full grounding to be effective. Nega-Stat can therefore be used in a wide range of industrial applications where full grounding is not possible or impracticable.

## Where can Nega-Stat be obtained.....

Nega-Stat can be obtained from:

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