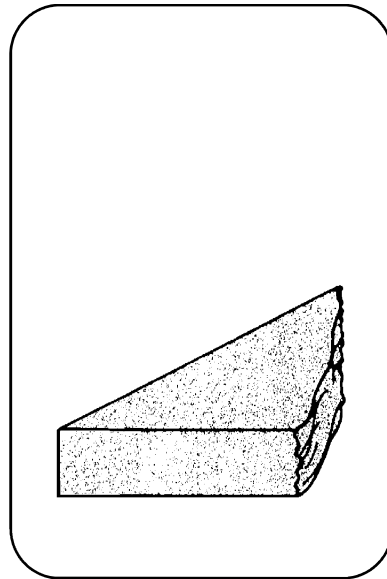


**High Density**



**Cross Linked**

**Description:**

Statfree® Conductive Foam can be used to protect ESD susceptible devices from ESD and physical damage, in a variety of electronics industry applications. Statfree® Conductive Foams are suitable for protection of static susceptible devices and assemblies. Use for shunting of component leads (IC, PCB and other static sensitive components).

**High Density:** Foam accommodates IC chips, printed circuit boards and other static susceptible electronic devices for lead insertion. When all leads are inserted in foam, terminals are brought to electrical equipotential, and exposure to electrostatic discharge is minimized.

**High Density Cross Link:** Foam is an IC insertion high grade conductive closed-cell cross linked polyethylene foam. This product exhibits excellent non-sloughing characteristics, so it is an excellent choice for clean and other critical environments.

**Electrical Properties\*:**

Surface Resistivity:  $10^3 - 10^5$  ohms per ASTM-D-3674-81  
 Volume Resistivity:  $10^3 - 10^5$  ohms per ASTM-D-3674-81  
 Charge Decay: Less than 0.05 seconds from 5KV per FTMS 101C, Method 4046.1

**Specifications:**

Construction: High Density -- Polyurethane open cell, carbon/acrylic impregnated.  
 Cross Linked -- Polyethylene closed cell extruded cross linked.  
 Corrosion Resistance: per MIL-STD 883C, Method 1004.2

	<b>High Density</b>	<b>Cross Link</b>
Density (approx.):	2.5/ft. 3±10%	3.1 lb./cu.ft.
Tensile Strength:	20 psi, min.	85 psi
Tear Resistance:	2.0/l in.	16 lbs.
Elongation:	150% min.	50%
Recommended Operating Temp. Range: (within 24 hr exposure period)	-20°F to +250°F	-95°F to +200°F

\*Independent test reports available upon request.

<b>HIGH DENSITY</b>		
<b>Thickness</b>	<b>Sheet Size (in)</b>	<b>Item No.</b>
1/4	24 x 36	12250
3/8	24 x 36	12350
1/2	24 x 36	12450
3/4	24 x 36	12550
<b>HIGH DENSITY CROSS LINKED</b>		
1/4	24 x 35	12660

**RoHS Compliance Statement**

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Desco Industries Inc. letter on-line at [Desco.com](http://Desco.com).

Tolerance ±1/16" on both length and width.

Special and die cut sizes available on a quotation basis.



Made in America

**STATFREE® FOAM, CONDUCTIVE**



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**DRAWING NUMBER**  
12100

**DATE:**  
06/06

# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**Product Trade Name:** Statfree® Conductive Foam

**Chemical Family:** Polyolefin

**Chemical Name:** Polyethylene Foam

**Other Names:** LD Conductive (CN) or Static Dissipative (SD) Grades

**CAS Name & Number:** Polyethylene CAS 9002-88-4  
Carbon Black CAS 1333-88-4

**Appearance:** Black closed cell foam

**Odor:** None at ambient temperature

**Intended Uses:** Conductive packing

## THE MAIN HAZARD

In the event of fire, the foam can ignite and burn. Burning can be accompanied by the release of flaming droplets of polymer.

## EMERGENCY & FIRST AID PROCEDURES

### If this happens Do this

Fire	Spray with water
Product in eye	Irrigate with water
Product on skin	Not applicable
Product ingested	Rinse mouth with water and obtain medical attention
Product inhaled	Not applicable
Spillage	Treat as garbage

## COMPOSITION

**Crosslinked polyethylene:** 90-93%

**Carbon black:** 7-10%

## HEALTH HAZARD INFORMATION

**Occupational exposure limits:** None

### Health Effects:

**On Eyes:** May cause irritation if heated without adequate ventilation

**On Skin:** Foam is not considered to be a skin irritant, but under some circumstances foam can have a minor abrasive action on skin.

**By Ingestion:** Material is inert, but ingestion should be avoided.

**When Inhaled:** There is no release of fumes at normal ambient temperature.

**Additional Medical Information:** None

## FIRE & EXPLOSION DATA

**Flash Point (°C):** Not applicable

**Auto Ignition (°C):** 365 ATMD D 1928-77

**Flammable Limits (% v/v):** Not applicable

## REACTIVITY

**Stability:** Generally inert, but will react with oxidizing agents at elevated temperatures

**Incompatibility:** None

**Hazardous Decomposition and Combustion Products:** Carbon monoxide, acrolein and other aldehydes may be evolved when combustion occurs under low oxygen conditions.

## PHYSICAL DATA

**Density:** 0.92 g/cc (polymer)

**Vapor Liquid (Air = 1):** Not applicable

**Bulk Density (kg/m<sup>3</sup>):** Nominal densities vary from 30 Kg/m<sup>3</sup> to 50 Kg/m<sup>3</sup>

**Boiling Point (°C):** Not applicable

**Freezing/Melting/Pour Point (°C):** Not applicable

**Coefficient of Cubical Expansion (per °C):** Varies with temperature and time. Will expand first and then shrink.

**Vapor Pressure (mbar):** Not applicable

**Solubility:** In water - NIL. Partially soluble in hot hydrocarbon or halogenated solvents.

**Viscosity (cP):** Not applicable

**Electrostatic Generation:** Static is rapidly dissipated

**Equilibrium Vapor Concentration (in air):** Not applicable

## HANDLING & STORAGE

**Handling and Storage Materials:**

**Unsuitable:** NA

**Suitable:** Shrink or stretch wrap containers

**Handling & Storage Precautions:** Store at ground level away from direct sunlight and heat sources

**Recommended Protection:** NA

**Disclaimer:** This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was obtained from test performed by agencies other than the Manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.

**DESCO**

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