



Public

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3M™ High Performance Welding Drape

Data Sheet

3M Part No.(s) **3M Part Descriptor(s)**
05919 3M™ High Performance Welding Drape

3M Fax on Demand Identification Number: 16-2909-6

Description

3M™ High Performance Welding Drape

Features, Advantages, Benefits

Features	Extreme heat resistance Lightweight (50% lighter than many competitors) Non-abrasive Long lasting
Advantages	Best available protection from welding spatter and grinding sparks Easy to position and hold in place Less likely than standard drapes to scratch or mar protected surfaces Replacement needed less often than standard drapes
Benefits	Minimizes chance of damage to protected surface from welding and grinding Quick to use for technician and easy to fixture to surface Minimizes cost of repairing/replacing surfaces scratched by standard drape Less cost to shop due to longer life cycle of drape

Typical Physical Properties

Container	Packaged in reusable plastic sleeve
Base	Stabilized Acrylic Fiber
Density lb/cu ft (Appx.)	5
Color	Black
Flash Point - °F	N/A
Viscosity (CPS) Brookfield Viscometer	NA
Solids Content (Appx.)	100%
Consistency	solid, nonwoven blanket
Solvent	N/A
Service Temperature - °F	Short term resistance over 2000 deg F
Propellant	N/A
Product Thickness (in)	0.250
Product Weight (oz/ sq yd)	14-16

Product Uses

This is a highly versatile product that can be used to protect both horizontal and vertical surfaces from:

Grinding sparks
Welding spatter
Slag from torch cutting
Many other applications involving molten or hot metal debris

Performance Properties

- Limiting Oxygen Index (LOI) above 50%; drape will not sustain a steady burn at atmospheric conditions
- Thermal Conductivity: 0.214 Btu in / h ft² deg F
- Thermal Resistivity: 4.58 deg F ft² h / Btu in
- Drape Size: 80" x 57"
- Tear Strength: 10-15 lbf
- Tensile Strength: 130-150 psi
- Mullen Burst Strength (air pressure): 230-250 psi
- Permeability: 70-75 CFM air passage
- Thermal Stability: less than 1.5% shrinkage after 2 hours at 450 deg F

Handling and Application Information

Directions for Use

Before beginning any welding, grinding, or other spark producing operation, determine areas to be protected. Apply the drape in such a manner that the entire area is covered and sealed as necessary; the drape will not protect from sparks or spatter than can roll down behind it. Affix the drape with a 3M Masking Tape or other suitable method so that it remains in place.

Avoid folds or creases in the drape that can catch and hold molten metal. The drape will not burn, but prolonged exposure to superheated metal can transfer enough heat through to damage the substrate that is being protected.

To protect horizontal surfaces, 3M best practices dictate that two layers of drape is optimal. This greatly reduces heat transfer from molten metal that lands and stays on the drape to the protected substrate below, lessening the possibility of damage.

Finish the welding, grinding, or other application, remove the drape and store it properly.

Applications

Protection from welding, grinding, and other spark/slag producing activity for:

Paint
Glass
Upholstery
Seat Fabrics
Leather
Plastics (such as a dashboard)
Electronic components
Any flammable or otherwise damageable substrate that could be affected by molten metal

Storage and Handling

Store the drape in the reusable plastic case that came with it. Keep the drape as clean as possible. Allowing large quantities of dust to accumulate in the drape can cause this dust to ignite when exposed to grinding sparks or welding slag. Any solvents that are soaked into the drape can ignite when exposed to grinding sparks or welding slag. The drape can be cleaned by shaking debris out of it or brushing gently.

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product refer to MSDS

Country

This document is public. It may be distributed.

Warranty and Limited Remedy

This product will be free from defects in material and workmanship at the time of shipment. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If this product is defective, your exclusive remedy and 3M's and seller's sole obligation shall be, at 3M's option, to replace the product or refund the purchase price.

LIMITATION OF LIABILITY: 3M and seller will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

For Additional Health and Safety Information

3M Automotive After Markets
3M Center, Building 223-6N-01
Saint Paul, MN 55144-1000

1-877-666-2277 (1-877-MMM-CARS)

Material Safety Data Sheets and Technical Data Sheets are also available by calling Fax on Demand 1-800-305-0419.
Help Line 1-800-621-5455 (US) 1-650-596-4407 (International).

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Author: Aaron N. Berg/US-Corporate/3M/US

Modifiers: Aaron N. Berg/US-Corporate/3M/US

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