



# Welding and Spark Deflection Paper

## 05916

Technical Data Sheet

June, 2013

3M Part No.(s)	3M Part Descriptor(s)
05916	3M™ Welding and Spark Deflection Paper

**Product Description** 3M™ Welding and Spark Deflection Paper is a flame-retardant, repositionable, adhesive-backed paper product used to help protect vertical surfaces from damage caused by welding spatter and grinding sparks.

Features, Advantages, Benefits	Features	Advantages	Benefits
	<ul style="list-style-type: none"> <li>• Flame retardant</li> </ul>	<ul style="list-style-type: none"> <li>• Protects vertical surfaces from welding spatter and grinding sparks</li> </ul>	<ul style="list-style-type: none"> <li>• Helps to prevent potential replacement due to damage from spatter and sparks</li> </ul>
	<ul style="list-style-type: none"> <li>• Repositionable</li> </ul>	<ul style="list-style-type: none"> <li>• Easily adjusted to insure correct positioning</li> </ul>	<ul style="list-style-type: none"> <li>• Less product waste</li> </ul>
	<ul style="list-style-type: none"> <li>• Easy to install</li> </ul>	<ul style="list-style-type: none"> <li>• Cut to fit repair size</li> </ul>	<ul style="list-style-type: none"> <li>• Helps save time and reduces product waste</li> </ul>

**Typical Physical Properties**

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Container	Plastic Bag
Base	1 roll
Density lbs/Gallon (Appx.)	NA
Color	Brown paper with 3M printing
Flash Point - °F	NA
Viscosity (CPS) Brookfield Viscometer	NA
Solids Content (Appx.)	100%
Consistency	Solid paper
Solvent	NA
Service Temperature - °F	Normal shop conditions
Weight per Area	95 g/m <sup>2</sup>
Size of Roll	24 in. wide x 150 ft. long
Rolls per Case	2

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### Product Uses

Product is designed for use on vertical surfaces, such as

- automotive glass
- painted sheet metal
- automotive light fixtures
- many other vertical surfaces

The product is **not** designed for installation on horizontal surfaces, such as roofs, deck lids, hoods, carpeting on floorboards. It is not designed to prevent heat transfer from sparks or spatter that are allowed to sit in one position on the paper, these will burn through.

It is recommended to use 3M™ High Performance Welding Drape (PN 05919) for horizontal surfaces or any area where sparks will remain on the surface until cooled. Allowing sparks to remain on horizontal surfaces may result in burning or damage to the protected area.

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### Performance Properties

**Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.**

3M AT-177 burn test (12 second flame exposure, burn length): 5.4 inches

3M AT-174 peel test: 31.9 grams piw

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### Directions for Use

1. Install 3M™ Welding and Spark Deflection Paper (PN 05916) in its designated dispenser, PN 05912.
2. Pull and tear off an appropriately-sized piece for the application.
3. Install by pressing in place on the surface to be protected. If more than one sheet will be used, install from the bottom first and then continue installing new sheets above it, overlapping by at least 1 inch. This is to insure that any seams between sheets will allow sparks to roll over easily and not get caught, which could cause a burn.
4. Be sure the sheets are free from wrinkles. Wrinkles can provide ledges for sparks to catch on, allowing them to burn through and damage the substrate underneath.
5. When the work is complete, remove the paper. Do not allow the paper to sit for more than 1 week, to be exposed to prolonged direct sunlight, or to get wet. These conditions may cause some adhesive to transfer to the substrate, and this will need to be removed with a solvent such as 3M™ General Purpose Adhesive Cleaner (PN 08984, 08986, 08987).
6. Reusing the paper on different substrates may work until the adhesive is no longer tacky, but for best results use each piece for 1 application and discard.

Please note: If 'Directions for Use' reference P.N.'s 08984, 08986, or 08987, please read. Federal and local air quality regulations may regulate or prohibit the use of surface preparation and cleanup solvents based on VOC content. Consult your local and Federal air quality regulations for information. When using solvents, use in a well ventilated area. Extinguish all sources of ignition in the work area and observe precautionary measures for handling these materials. Refer to product label and MSDS for P.N. 8984, 8986, or 8987 for detailed precautionary information.

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<b>Applications</b>	Product is designed for use on vertical surfaces, such as <ul style="list-style-type: none"><li>• automotive glass</li><li>• painted sheet metal</li><li>• automotive light fixtures</li><li>• many other vertical surfaces</li></ul>
<b>Storage and Handling</b>	Store at room temperature. Rotate stock on a “first-in-first-out” basis. When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 24 months.
<b>Precautionary Information</b>	Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product. See Link Below.  <a href="http://solutions.3m.com/wps/portal/3M/en_US/MSDS/Search/?gsaAction=msdsSRA&amp;msdsLocale=en_US">http://solutions.3m.com/wps/portal/3M/en_US/MSDS/Search/?gsaAction=msdsSRA&amp;msdsLocale=en_US</a>
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### For Additional Health and Safety Information



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