



# High-temperature Masking Tape 214

FOD# 1451  
page 1 of 3

**Technical Data** **September 1, 1998**

**Product Description** A high-temperature paper masking tape good for one hour at 350°F (177°C) on most surfaces. The adhesive of Tape 214 is sulfur-free which makes it one of the few tapes that can be used on copper, silver and other precious metals.

**Product Construction** Backing: A smooth crepe paper treated with a high heat and stain resistant saturant.  
Adhesive: A firm rubber adhesive designed to give outstanding holding power for a high heat resistant tape.  
Standard Roll Length: 60 yds. (54.8m)

**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.

		<b>ASTM TEST METHOD</b>
Adhesion to Steel:	27 oz./in. width (29 N/100mm)	D-3330
Tensile Strength:	24 lbs./in. width (420 N/100mm)	D-3759
Elongation at Break:	10%	D-3759
Tape Thickness:	6.7 mils (0.17mm)	D-3652
Temperature Use Range:	Up to 350°F (177°C)	

- General Information**
1. The formulation of Tape 214 is sulfur-free which makes it one of the few tapes that can be used on copper and silver plated surfaces. It has excellent stain resistance.
  2. The adhesive on Tape 214 is very firm and allows it to be used on most treated metals.
  3. Tape 214 complements Tape 213 in high temperature masking tape usage and should be evaluated at the same time.

# Scotch<sup>®</sup> High-Temperature Masking Tape 214

FOD#1451

page 2 of 3

**General Information  
(cont.)**

4. Tape 214 will generally withstand bake cycles of up to 350°F (177°C) for one hour – even on treated metals. Performance is governed by total time, temperature, surface tape is applied to, and any other coatings and conditions.
5. Tape 214 should not be subjected to outdoor exposure or prolonged periods of sunlight exposure. Tape may become very difficult to remove.
6. Tape 214 is manufactured in an ISO 9002 registered plant to meet worldwide quality standards.

**Shelf Life**

To obtain best performance, use this product within one year from date of manufacture and store under normal conditions of 70°F (21°C) and 50% R.H. in the original carton.

**Application Ideas**

Tape 214 can be used in a wide variety of high heat, treated metal, and stain resistant applications. It is generally considered only when one of these factors is a problem.

**Features**

<u>FEATURES</u>	<u>ADVANTAGES</u>	<u>BENEFITS</u>
Highly cured adhesive	Good high temperature holding	Helps reduce rework
	Adhesive transfer resistance	Clean removal/helps reduce clean up
Controlled crepe paper backing	Sliver resistance	One piece removal/helps reduce labor
	Conformability	Easy handling/helps reduce time involved
	Easy tear	Hand tearable/helps reduce waste
	Solvent and moisture resistance	Resists bleed-through/helps reduce rework
Special backsize treatment	Controlled unwind	Easy to use/helps reduce waste
	Paint flaking resistance	Helps reduce rework/gives quality paint job

---

### Technical Information and Data

The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

---

### Product Use

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

---

### Warranty and Limited Remedy

The 3M product will be free from defects in material and manufacture for a period of one (1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

---

### Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including contract, warranty, negligence, or strict liability.



This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



### Industrial Tape and Specialties Division

3M Center, Building 220-7W-03  
St. Paul, MN 55144-1000  
USA  
1 800.722.5463  
1 800.223.7427 Fax On Demand  
www.3M.com