



# High-temperature Masking Tape

## 214

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### Technical Data

September 1, 1998

Supersedes April 1, 1995

**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.

		<u>ASTM TEST METHOD</u>
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.

**General Information  
(cont.)**

1. 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.
2. Tape 214 should not be subjected to outdoor exposure or prolonged periods of sunlight exposure. Tape may become very difficult to remove.
3. 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

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**Technical Data**

All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the masking paper, film or tape for the intended use.

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