

# TECHNOTES

by  **Texwipe®**  
An ITW Company

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## Autoclaving Synthetic and Cellulose-Based Paper

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# Autoclaving Synthetic and Cellulose-Based Paper

## Summary

Texwipe's TexWrite® products offer a complete system for stationery use in any contamination-controlled manufacturing environment. We back our materials with advanced testing and quality control to assure cleanliness and consistency.

There are two kinds of paper in Texwipe's portfolio, a synthetic product, TX5800, and cellulose-based (normal) paper treated with a coating to reduce the emission of particles and fibers. The second category comes in three basis weights: 18, 22 and 30 pounds. These part numbers are:

## Products

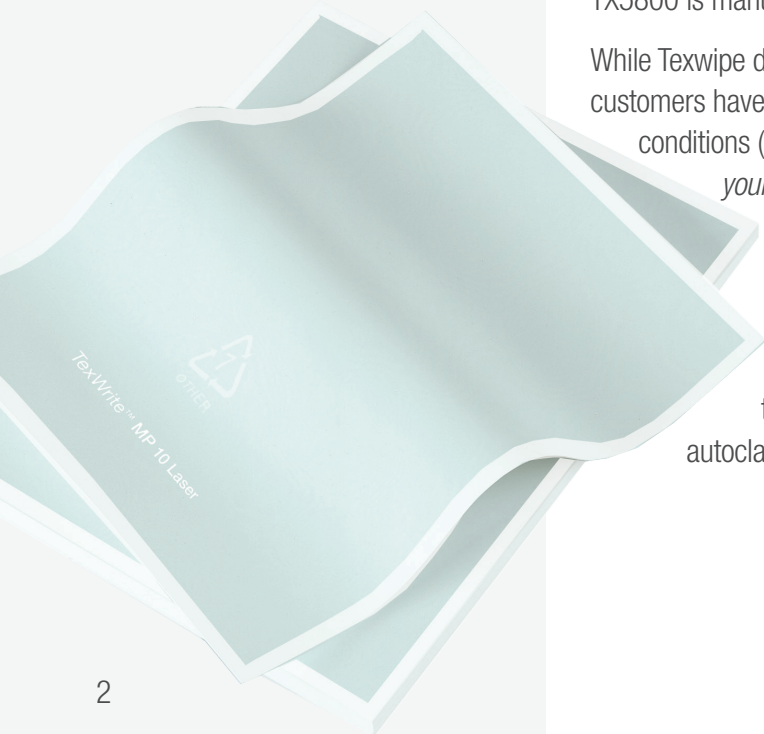
Number	Description	Packaging	Case
<i>TexWrite® MP 10 – Synthetic</i>			
<b>TX5800</b>	8.5" x 11", green/white loose sheets, unlined	100 sheets / pack	5 packs
<i>TexWrite® 30 – 30# Cellulose with Polymer Reinforcement</i>			
<b>TX5832</b>	8.5" x 11", white loose sheets, unlined	250 sheets / pack	10 packs
<i>TexWrite® 22 – 22# Cellulose with Polymer Reinforcement</i>			
<b>TX5812</b>	8.5" x 11", blue loose sheets, unlined	250 sheets / pack	10 packs
<b>TX5814</b>	8.5" x 11", yellow loose sheets, unlined	250 sheets / pack	10 packs
<b>TX5815</b>	8.5" x 11", white loose sheets, unlined	250 sheets / pack	10 packs
<b>TX5816</b>	8.5" x 11", blue loose sheets, unlined 3-hole punched	250 sheets / pack	10 packs
<b>TX5831</b>	8.5" x 11", green loose sheets, unlined	250 sheets / pack	10 packs
<i>TexWrite® 18 – 18# Cellulose with Polymer Reinforcement</i>			
<b>TX5862</b>	8.5" x 11", blue loose sheets, unlined	250 sheets / pack	10 packs

## Synthetic Paper

TX5800 is manufactured from a microporous, polyolefin-based material.

While Texwipe does not have a report or document for its autoclavability, other customers have reported that TX5800 is autoclavable under saturated steam conditions (121°C) for 30 minutes, 10 minute drying cycle. *Validation under your specific conditions is required.*

For the best product performance, the heat and steam must be evenly distributed. It is suggested that no more than five sheets are stacked flat with wipers placed between the sheets to prevent them from sticking together or curling. Another option is to hang the sheets in the autoclave. This paper performs better under autoclave conditions than the cellulose-based paper.



## Cellulose-Based Paper

These paper products will be different after being exposed to steam in the autoclaving process. The fibers in the paper swell after being exposed to steam like other kinds of paper. Some colorant may also be extracted from the paper.

The best conditions for autoclaving are under saturated steam conditions (121°C) for 30 minutes, 10 minute drying cycle. *A validation under your specific conditions is required.*

For the best product performance, the heat and steam must be evenly distributed. It is suggested that no more than five sheets of cellulose-based paper be stacked flat with knit polyester-type, not hydroentangled (Technicloth®), wipers placed between the sheets to prevent the sheets from sticking together and to reduce curling. Another option is to try hanging the sheets in the autoclave.

## au•to•clave

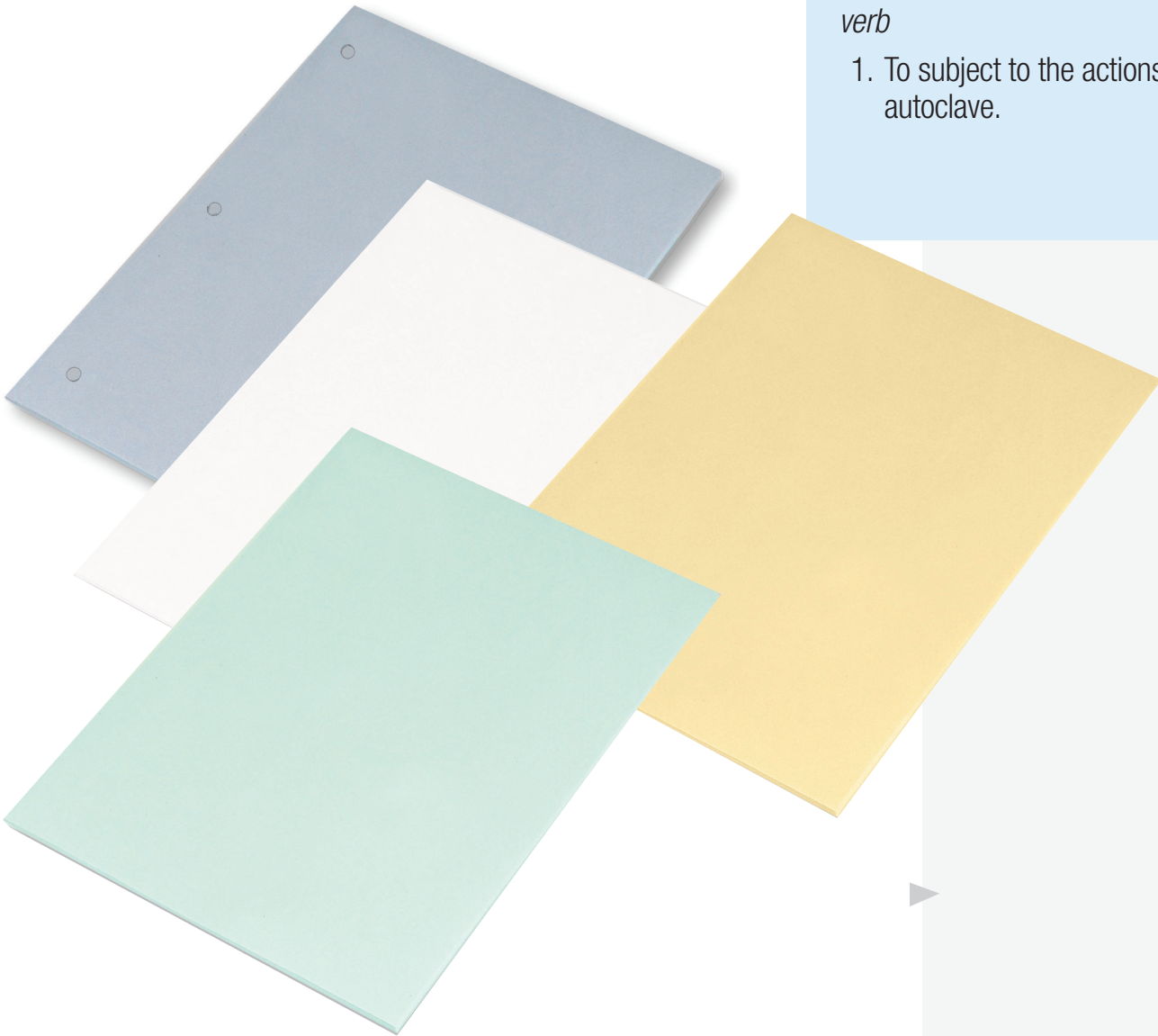
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*noun*

1. An apparatus (as for sterilizing) using superheated steam under pressure.

*verb*

1. To subject to the actions of an autoclave.



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For additional information, please  
contact Texwipe Customer Service.

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