

UU-P-553C
February 12, 1976
SUPERSEDING
Fed. Spec. UU-P-553B
March 23, 1965

FEDERAL SPECIFICATION

PAPER, WRAPPING, TISSUE

This specification was approved by the
Commissioner, Federal Supply Service,
General Services Administration, for the
use of all Federal agencies.

1. SCOPE AND CLASSIFICATION.

1.1 Scope. This specification covers tissue wrapping paper used in packaging and packing applications.

1.2 Classification.

1.2.1 Types and classes. Tissue wrapping paper covered by this specification shall be of the following types and classes, as specified (see 6.2).

Type I - Regular
Class 1 - Bleached
Class 2 - Unbleached

Type II - Neutral (antitarnish)
Class 1 - Bleached
Class 2 - Unbleached

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issues in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

Federal Specifications:

UU-P-268 - Paper, Kraft, Wrapping.
PPP-B-636 - Boxes, Shipping, Fiberboard.
PPP-T-45 - Tape, Gummed, Paper, Reinforced and Plain, For Sealing and Securing.
PPP-T-76 - Tape, Pressure-Sensitive Adhesive Paper, (For Carton Sealing).

Federal Standards:

Fed. Test Method Std. No. 101 - Preservation, Packaging and Packing Materials:
Test Procedures.
Fed. Std. No. 123 - Marking for Shipment (Civil Agencies).

(Activities outside the Federal Government may obtain copies of Federal Specifications, Standards, and Handbooks as outlined under General Information in the Index of Federal Specifications and Standards and at the prices indicated in the Index. The Index, which includes cumulative monthly supplements as issued, is for sale on a subscription basis by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

(Single copies of this specification and other Federal specifications required by activities outside the Federal Government for bidding purposes are available without charge from Business Service Centers at the General Services Administration Regional Offices in Boston, New York, Washington, DC., Atlanta, Chicago, Kansas City, MO, Fort Worth, Denver, San Francisco, Los Angeles, and Seattle, WA.

UU-P-553C

(Federal Government activities may obtain copies of Federal Specifications, Standards, and Handbooks and the Index of Federal Specifications and Standards from established distribution points in their agencies.)

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129 - Marking for Shipment and Storage.

(Copies of Military Specifications and Standards required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless a specific issue is identified, the issue in effect on date of invitation for bids or request for proposal shall apply.

Technical Association of the Pulp and Paper Industry (TAPPI):

T 444 - Silver Tarnishing Test of Paper.

(Application for copies should be addressed to the Technical Association of the Pulp and Paper Industry, One Dunwoody Park, Atlanta, GA 30341.)

National Motor Freight Traffic Association, Inc., Agent:

National Motor Freight Classification.

(Application for copies should be addressed to the American Trucking Association Inc., Tariff Order Section, 1616 P Street NW., Washington, DC 20036.)

Uniform Classification Committee, Agent:

Uniform Freight Classification.

(Application for copies should be addressed to the Uniform Classification Committee, Room 1106, 222 South Riverside Plaza, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 Stock.

3.1.1 Type I. Type I paper shall be either Class 1, 100 percent bleached chemical wood pulp or Class 2, 100 percent unbleached kraft chemical wood pulp, as specified (see 6.2).

3.1.2 Type II. Type II paper shall be either Class 1, 100 percent bleached chemical wood pulp or Class 2, 100 percent unbleached kraft chemical wood pulp, as specified (see 6.2), so processed or treated as to comply with the antitarnish provisions of this specification.

3.2 Physical requirements. Wrapping tissue paper shall conform to the physical requirements specified in table I.

TABLE I. Physical properties

	Type I	Type II
Basis weight (24 by 36 inches - 480 sheets)		
pounds ¹	10	10
Bursting strength, 4 plies, average, points.....	9	9
Tearing resistance, machine direction,		
minimum, grams.....	7	7
Acidity, pH value.....	4.5-minimum	6.5-7.5
¹ Tolerance, -5 percent, +10 percent.		

3.2.1 Antitarnish quality. Type II tissue paper shall not tarnish silver when tested as specified in table III.

3.3 Form. Tissue paper shall be furnished in sheets with clean cut edges. The size of sheets shall be as specified (see 6.2) when measured as specified in 4.3.1.2. The tolerance for length and width shall be $\pm 1/4$ inch.

UU-P-553C

3.3.1 Ream. A ream shall be 480 sheets.

3.4 Formation. Holes in the tissue paper greater than one square millimeter (mm.) in area shall not total more than 8 square mm. when tested as specified in 4.4.1.

3.5 Color.

3.5.1 Class 1. Class 1 tissue paper shall be white, when examined as specified in 4.3.1.

3.5.2 Class 2. Class 2 tissue paper shall be the natural color of its components, when examined as specified in 4.3.1.

3.6 Workmanship. Tissue paper shall be clean and free of wrinkles, tears, rough cut or uneven edges, or any other defect which may affect serviceability.

4. QUALITY ASSURANCE PROVISIONS.

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

4.2 Quality conformance inspection. The supplier is responsible for insuring that materials and components were inspected in accordance with the requirements of referenced subsidiary specifications and standards to the extent specified, or, if none, in accordance with this specification.

4.3 Inspection of the end item.

4.3.1 Examination of the end item. The end item shall be examined to determine compliance with the requirements of section 3. The lot size, for purposes of determining the sample size in accordance with MIL-STD-105, shall be expressed in reams of tissue paper of one type, class, and size for examination under 4.3.1.1 and 4.3.1.2. Any defect in a sample ream shall constitute a defective ream.

4.3.1.1 Examination of the end item for visual defects. The inspection level shall be I with an AQL of 4.0 expressed in terms of percent defective.

Examine	Defect
Color:	
Class 1	Not white.
Class 2	Not natural color of the pulp.
Workmanship	Dirty, wrinkled.
	Edges not clean cut, torn, dusty.

4.3.1.2 Examination for defects in dimensions. The inspection level shall be S-2 with an AQL of 4.0 expressed in terms of percent defective.

Examine	Defect
Length and width	More than $\pm 1/4$ inch from specified dimensions.

4.3.1.3 Examination for count per reams. Samples selected in accordance with 4.3.1.2 shall be examined to determine conformance with the count per ream.

UU-P-553C

4.3.1.4 Examination of preparation for delivery. An examination shall be made to determine whether the packaging, packing and marking comply with the requirements of section 5. Defects shall be scored as specified in table II. Sampling shall be in accordance with MIL-STD-105. The sample unit shall be one container fully prepared for delivery. The lot shall be the number of containers offered for inspection at one time. The inspection level shall be S-2 with an AQL of 4.0 expressed in terms of percent defective.

TABLE II. Examination of preparation for delivery

Examine	Defect
Containers	Not as specified.
Contents	Not as specified.
Markings	Omitted; incorrect; illegible; improper size, location, sequence or method of application.
Materials	Component missing or damaged.
Workmanship	Bulging or distortion of containers.
	Cushioning inadequate, improper or missing.

4.3.1.4.1 Examination of closure, waterproofing and banding of containers. When shipping containers are required to comply with PPP-B-636, examination for defects in closure, waterproofing and banding shall be in accordance with the appendix of that specification.

4.4 Test methods. Test procedures and controls which differ from those specified herein, may be used by the supplier if they provide a quality assurance equivalent to that specified. If the Government inspection activity determines that such procedures and controls do not provide, as a minimum, such quality assurance, the supplier will use the test procedures set forth herein. In case of dispute as to test results, the test method specified herein will govern. The lot size for the purpose of determining the sample size shall be the number of reams in the lot. The inspection level shall be S-2 and the AQL shall be 2.5 percent defective. From each sample ream, sample sheets of wrapping paper shall be randomly selected to give a sample unit of at least 1,000 square inches per ream, and tested in accordance with Table III. Failure of any one sample ream to pass all of the tests specified shall constitute a defective. Bursting strength and tearing resistance tests shall not be performed on portions of specimens containing a fold or crease, as applicable. Composite samples shall be made by combining small portions of approximately equal size from all sample sheets comprising the sample ream.

TABLE III. Instructions for testing the end item

Characteristic	Specification reference		Requirements applicable to		Number determinations per unit	Results reported as	
	Require-ment	Test method ⁴	Sample unit	Lot aver.		Pass or fail ¹	Numerically to nearest ²
Fiber identification.....	3.1	6013	-		1 (on composite)		5 percent
Acidity (pH value).....	3.2	6002	-		1 (on composite)		0.1 pH
Basis weight (24 x 36- 480....	3.2	5022	X		1 (on 1,000 square inch specimen)		0.1 pound
Bursting strength..	3.2	2007	X		10 (5 on each side)		0.1 point
Tearing resistance, machine direction.....	3.2	2036	X		Average of 5		gram
Antitarnish quality-type II..	3.2.1	T444 ³	X	-	1	X	
Formation.....	3.4	4.4.1		X	1		0.1 square millimeter

1/ If failure is indicated, report the description of failure.

2/ Test report shall include all values on which results are based.

3/ Indicates Standards of the Technical Association of the Pulp and Paper Industry.

4/ Unless otherwise indicated, the test method is in Federal Test Method Standard 101.

UU-P-553C

4.4.1 Formation test. A 10- by 10-inch specimen shall be placed on a sheet of graph paper ruled in one mm. squares. The area of each hole in the specimen greater than one square mm. shall be estimated to the nearest 0.1 square mm. and tabulated. The sum of all tabulated areas shall be reported to the nearest 0.1 square mm.

5. PREPARATION FOR DELIVERY

5.1 Packaging. Packaging shall be level A, B, or C, as specified (see 6.2).

5.1.1 Level A and B. Unit container - One ream (480 sheets) of tissue wrapping paper of one description only shall be wrapped in kraft paper conforming to UU-P-268 and sealed with tape conforming to PPP-T-45 or PPP-T-76.

5.1.2 Level C. The tissue wrapping paper shall be packaged to afford adequate protection against damage during shipment from the supply source to the first receiving agency.

5.2 Packing. Packing shall be level A, B, or C, as specified (see 6.2).

5.2.1 Level A. Shipping container - 10 reams of tissue wrapping paper, packaged as specified in 5.1, shall be packed in a box conforming to PPP-B-636, class weather resistant. The box shall be closed in accordance with method III, waterproofed in accordance with method V, and banded as specified in the appendix of PPP-B-636.

5.2.2 Level B. Shipping container - Tissue wrapping paper shall be packed flat, in the quantities specified in 5.2.1, in a box conforming to PPP-B-636, class domestic. The box shall be closed in accordance with method II as specified in the appendix of PPP-B-636.

5.2.3 Level C. Rolls or sheets of paper in quantities as specified (see 6.2), packaged as specified in 5.1, shall be packed in containers to assure carrier acceptance and safe arrival at destination. The containers shall comply with Uniform Freight Classification Rules or National Motor Freight Classification Rules.

5.3 Marking.

5.3.1 Civil agencies. The unit and shipping containers shall be marked in accordance with Fed. Std. No. 123.

5.3.2 Military requirements. The interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use.

6.1.1 Type I. Type I tissue paper is used as an initial wrap to protect items from breaking, scratching, and dusting during shipment or storage.

6.1.2 Type II. In addition to the use requirements of type I, type II paper is used where type I may cause tarnishing of non-ferrous metals.

UU-P-553C

6.2 Ordering data. Purchasers should select the preferred options permitted herein, and include the following information in procurement documents:

- (a) Title, number, and date of this specification.
- (b) Type required (see 1.2).
- (c) Size of sheets (see 3.3).
- (d) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).

MILITARY CUSTODIANS:

Army - GL
Navy - SA
Air Force - 69

Review activities:

Army - MD, EA
Navy - SA
Air Force - 70, 71, 80, 82, 84
DOD-DS

User activities:

Army - ME

Preparing activity:

GSA - PSS

Orders for this publication are to be placed with General Services Administration, acting as an agent for the Superintendent of Documents. See Section 2 of this specification to obtain extra copies and other documents referenced herein. Price 30 cent each.

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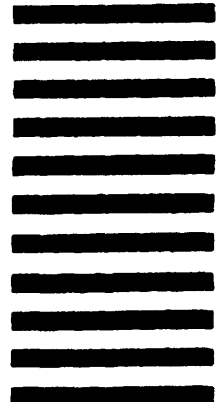
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