

Use information: This paragraph is informational only and is not exclusively definitive of the end use.

For high quality offset printing of announcements, certificates, citations, enrolled bills, etc., requiring processing through high speed copier or laser printer (90 g/m² stock only); execution with pen and ink; erasing quality; and highest degree of permanence (archival quality) when specified. Printed matter may include text and line illustrations; suitable for embossing.

Unless the option below is specified, the following 'basic' specification applies.

Stock: 100 pct bleached chemical woodpulp.

*Note:*¹ *Postconsumer fiber, in any percentage, is encouraged, provided that the requirements of this Standard are met.*

Grammage (g/m ²)	90	177
Basis weight: 17 by 22 inches, 500 sheets (pounds)	24	47

A tolerance of ±5 pct shall be allowed.

Folding endurance: Average, each direction, not less than—
M.I.T. (double folds)

	30	30
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Ruling and writing qualities: Lines ruled or characters written with pen and ink shall be clear and free from excessive feathering.

Erasing quality: Paper shall retain good ruling, writing, and typing quality, texture, and surface appearance, without ink spreading after repeated erasures. Samples from the delivery shall show no greater resistance than the standard sample to removal by abrasion of typewritten characters.

Watermark: Paper shall not be watermarked.

Curl: Paper shall lie flat before and after processing through a copier or laser printer with either no tendency to curl or with

a curl which can be overcome under reasonable working conditions.

General appearance: Paper shall conform to the standard sample(s) adopted by the Government.

Color: The paper in the order (or publication) shall be uniform with a target brightness of the white paper not less than 79 pct. The color variation shall not exceed DE(CIELAB)=1.0.

For colored stock, paper shall match one of the established standards or as specified. Colors shall not fade and shall appear even and uniform on the surface of the sheet. Stock shall not be 2-sided. Color coordinates for selected standards are included in Part 3.

Finish and formation: Shall be uniform.

Cleanliness: The dirt count for each side of the paper shall not exceed 250 specks per square meter. No sample sheet (600 to 650 cm² in size) shall contain more than one defect with an equivalent area of 0.25 mm² or greater.

Sampling and testing: Shall be conducted in accordance with standards in Part 2, *Government Paper Specification Standards*.

OPTION

Option A: Alkaline paper. This option is for products requiring permanence (archival quality).

The following requirements replace the same in the 'basic' specification and are added to the specification.

Acidity: pH value by cold extraction shall be not less than 7.5. The paper shall contain not less than 2 pct calcium carbonate. *Any deviation in this requirement shall be sufficient cause for rejection of the paper.*

Tearing strength: Average, each direction not less than (mN)	500	990
Equivalent (grams)	51	101

Sampling and testing: Shall be conducted in accordance with standards in Part 2, *Government Paper Specification Standards*. The precision requirements of the acceptance criteria (Part 4) shall apply for all properties except for stock, acidity, filler content, and folding endurance. *Any deviation in the "excepted" properties is a critical defect and shall be sufficient cause for rejection of the paper.* Prior-to-production testing of paper is required. Conformance to these requirements will permit the printing of the infinity symbol (∞) in the document or publication. (Reference: ANSI/NISO standard Z39.48-1992.)

Unless otherwise specified, the following is automatically waived when printing or duplicating is to be accomplished on commercial contract

Sizing: Paper shall be surface- and internal-sized suitable for satisfactory printing on both sides of the sheet on high-speed offset presses equipped with continuous flow or brush dampening systems.

Color: Shall match the Government's standard sample for color. A deviation of DE(CIELAB)=3.0 from the color standard for white and 2.0 for colored stocks is allowed. A color difference 1.0 DE unit between felt and wire sides is permitted.

Surface: Shall be free from lint, fuzz, or any particles which will pick, lift, fluff, or pile on the blanket under normal press conditions. Paper shall lie flat with either no tendency to curl or with a curl which can be overcome under reasonable working conditions.

Size and trim: Sheets: Paper shall be furnished in the size(s) ordered and shall be flat, trimmed square on four sides with clean smooth edges, and evenly jogged. A tolerance of ±2 mm (1/16 inch) shall be allowed except for sheets 216 x 356 mm (8 1/2 x 14 inches) or less; then a tolerance of ±1 mm (1/32 inch) shall be allowed. Successive sheets within any package shall not differ from each other by more than 0.5 mm (1/64 inch). Paper with the long dimension 813 mm (32 inches) or less shall be considered square if the variation does not exceed 1 mm (1/32 inch); over 813 mm (32 inches), 2 mm (1/16 inch).

Grain: Direction of the grain on flat paper shall be as ordered.

Pressroom conditions: The bulk of this paper will be used in air-conditioned pressrooms maintained at 24°C ±2°C and 45 pct ±8 pct relative humidity.

¹This grade is typically a low Government usage paper and currently not readily and/or economically available with postconsumer fiber content. If a postconsumer fiber content is desired in the paper, that number will be stated in the procurement document.