

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

For face and back offset printing of books, pamphlets, etc. requiring the highest degree of permanence (archival quality). Printed matter may include text, line illustrations, and halftones up to 150-line screen.

**Stock:** 100 pct bleached chemical woodpulp.

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

**Acidity:** pH value by cold extraction shall be not less than 7.5. The filler shall contain not less than 2 pct calcium carbonate.

<b>Grammage</b> (g/m <sup>2</sup> ) .....	45	60	75	90	105
Basis weight: 25 by 38 inches, 500 sheets (pounds) .....	30	40	50	60	70
A tolerance of ±5 pct shall be allowed.					

**Folding endurance:**

M.I.T., average, each direction, not less than (double folds) .....	30	30	30	30	35
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**Tearing strength:**

Average, each direction, not less than (mN) .....	240	320	400	500	590
Equivalent (grams) .....	25	33	41	51	61

**Opacity:**

Average, not less than (percent) .....	84	86	89	91	92
No individual specimen shall average less than (percent) .....	82	84	87	89	90

**Thickness:**

Average (mm) .....	0.055	0.075	0.100	0.120	0.140
Equivalent (inch) .....	0.0022	0.0030	0.0039	0.0047	0.0055

A tolerance of ±0.008 mm (0.0003 inch) shall be allowed on the 45 g/m<sup>2</sup> and ±0.013 mm (0.0005 inch) on the 60, 75, 90, and 105 g/m<sup>2</sup> paper. Paper shall be uniform and shall not vary more than 0.011 mm (0.0004 inch) from one edge to the other.

**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 79 pct for the white paper. The color variation shall not exceed DE(CIELAB)=1.0. For cream white, the color coordinates 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 cm<sup>2</sup> in size) shall contain more than one defect with an equivalent area of 0.25 mm<sup>2</sup> or greater.

**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, folding endurance, and brightness. 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 paper on high-speed offset presses equipped with continuous flow or brush dampening systems.

**Pick resistance:** Average, each side, not less than 13-A Dennison wax number. No individual specimen shall average less than 11-A Dennison wax number.

**Color:** Shall match the Government's standard sample for color. A deviation of DE(CIELAB)=3.0 from the color standard is allowed.

**Curl:** Paper shall lie flat with either no tendency to curl or with a curl which can be overcome under reasonable working conditions.

**Surface:** Shall be free from lint, fuzz, or any particles which will pick, lift, fluff, or pile on the blanket under normal press 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 by 356 mm (8 1/2 by 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.

<sup>1</sup>This 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.