

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

For higher quality multicolor face and back and offset printing of books, pamphlets, brochures, etc. Printed matter may include text, line illustrations, halftones up to 150-line screen, and solid reverses on the smooth-finish stock. Allows for unique finishes for special print requirements.

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

**Stock:** Groundwood pulp, not to exceed 1 pct.

*Note:*<sup>1</sup> *Not less than 30 pct postconsumer fiber. Any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.*

<b>Grammage</b> (g/m <sup>2</sup> ) .....	105	120	150
Basis weight: 25 by 38 inches, 500 sheets (pounds) .....	70	80	100
A tolerance of ±5 pct shall be allowed.			

<b>Bursting strength:</b> Average, not less than (kPa) .....	170	190	240
Equivalent (lb/in <sup>2</sup> ) .....	25	28	35

<b>Opacity:</b> For white paper only, average, not less than (percent) .....	94	95	97
No individual specimen shall average less than (percent) .....	92	93	95

<b>Thickness:</b> For smooth-finish stock only, average (mm) .....	0.140	0.160	0.200
Equivalent (inch) .....	0.0055	0.0063	0.0079

A tolerance of ±0.008 mm (0.0003 inch) shall be allowed for the 105 and 120 grammage stocks; ±0.013 mm (0.0005 inch) for the 150 grammage. 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 88 pct for the white paper. 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 or transfer (rub off) 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.

*Note: The closeness of the color match required of the paper supplied shall be designated "precision", "regular", etc. If no designation is specified a "regular" acceptance criteria will be applied to judge acceptability of the color match for hue, chroma, or saturation differences.*

**Finish:** Paper shall have a smooth-finish or as specified (linen, leatherette, etc.).

**Formation:** Shall be uniform.

**Cleanliness:** The dirt count for each side of the paper shall not exceed 650 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.

*Note: This property is automatically waived when the ordering agency has specified a stock which includes "fibers" or "specks" in the surface of the sheet.*

**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 above average permanence for white stock only.

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

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

*Note: 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 7.0. 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.*

*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 for white and 2.0 for colored stocks is allowed. A color difference 1.0 DE unit between the felt and wire sides is permitted.

**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 (8½ 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 requirement may be waived by the ordering agency when purchasing less than a *mill run* quantity and so stated in the procurement document.