

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, catalogs, folders, circulars, etc. Printed matter may include text, line illustrations, and halftones up to 150-line screen. Slitting and pasting and/or cross perforating are included in press capabilities.

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

Stock: 100 pct bleached chemical pulp.

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

Grammage (g/m²) 45
Basis weight: 25 by 38 inches, 500 sheets (pounds) 30
A tolerance of ±5 pct shall be allowed.

Bursting strength: Average, not less than (kPa) 100
Equivalent (lb/in²) 15

Opacity: Average, not less than (percent) 88
Any specimen averaging less than 88 pct shall be sufficient cause for rejection of the paper.

Thickness: Average (mm) 0.053
Equivalent (inch) 0.0021
A tolerance of +0.003 mm (0.0001 inch) and -0.006 mm (0.0002 inch) shall be allowed.

Smoothness: Average, each side, (units) 90 to 60

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 81 pct or as specified. The color variation shall not exceed DE(CIELAB)=1.0.

Finish and formation: Shall be uniform.

Cleanliness: The dirt count for each side of the paper shall not exceed 100 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 above average permanence.

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 heat-set web offset presses equipped with continuous flow or brush dampening systems.

Pick resistance: Average, each side, not less than 13-A Dennison wax number for sheet-fed offset; 11-A Dennison wax for web offset.
No individual specimen shall average less than 11-A and 9-A Dennison wax number, respectively.

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).

Rolls: Roll width and diameter shall be as ordered. A tolerance of ±2 mm (1/16 inch) shall be allowed for width and ±26 mm (1 inch) for diameter.

Roll winding: Roll paper shall be tightly wound at even tension and shall not contain more than the specified maximum number of splices per roll. The number of splices permitted per roll is determined by the roll diameter as ordered. On rolls 1,016 mm (40 inches) or less, a maximum of three splices per roll shall be allowed. On rolls over 1,016 mm (40 inches), a maximum of four splices per roll shall be allowed. Splices shall be neatly and securely overlap-pasted and made with a repulpable adhesive which will not permit the splice to separate while passing through a drying oven maintained at 200 °C. The adhesive may be applied from a tape form backing, provided the backing is removed, leaving only the adhesive component on the splice. The adhesive shall not cause the splice to adhere to adjacent laps. The tails of the splices shall be neatly and evenly removed without damage to adjacent laps. Splices shall be flagged at both ends with projecting colored markers, not pasted to the splice, or otherwise clearly marked.

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.