

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

For high quality face and back offset printing of stationery, open forms, etc.; requiring processing through high speed copiers and laser printers with imaging on both face and back; requiring execution with pen and ink, erasing quality, and greater opacity than obtainable in Standard JCP G40/G45. May contain some foreign or "dirt" particles embedded in the surface of the paper. Printed matter may include text and line illustrations.

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

Stock: Not less than 25 pct cotton or linen fibers. Groundwood pulp, not to exceed 1 pct; the remainder chemical pulp.

*Note:*¹ Not less than 50 pct total recovered material of which 30 percentage points shall be postconsumer recovered fiber. Postconsumer fiber, in any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.

Grammage (g/m²) 90
Basis weight: 17 by 22 inches, 500 sheets (pounds) 24
A tolerance of ±5 pct shall be allowed.

Folding endurance: Average each direction, not less than—
M.I.T. (double folds) 20
Schopper (double folds) 30

Opacity: Average, not less than (percent) 90
No individual specimen shall average less than (percent) 88

Smoothness: Average, each side, not to exceed (units) .. 270
Any specimen averaging more than 270 units shall be sufficient cause for rejection of the paper.

Ruling and writing qualities: Lines ruled and characters written with pen and ink shall be clear cut 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.

Curl: Paper shall lie flat before and after processing through a high speed 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 82 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 specified by the ordering agency. Color 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.

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 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 and for white stock only.

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

Stock; Not less than 25 pct cotton or linen fibers; the remainder bleached chemical woodpulp.

*Note:*¹ Not less than 50 pct total recovered material of which 30 percentage points shall be postconsumer recovered fiber. Postconsumer fiber, in any percent over 30 percentage points, is encouraged, provided that the requirements of this Standard are met.

Acidity: pH value, by cold extraction of the white stock 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.

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.

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.

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 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 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).

Watermark: Shall be the seal of the United States, with the word "recycled", one star, and the year of manufacture, on a basis of four times on a sheet 432 by 559 mm (17 by 22 inches), one in each quarter. The watermark shall be clear and legible. When viewed from the felt side of the sheet, the design shall appear as illustrated, but in proper size. Full size copy will be supplied upon request.



[Year of manufacture]

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.

¹Note, recovered material (cotton/linen) is not a postconsumer recovered fiber.