

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

For highest quality offset printing of certificates, citations, diplomas, etc., requiring execution with pen and ink, erasing quality, permanence, and suitable for processing in a laser printer. Printed matter may include text and line illustrations.

Stock: 100 pct cotton or linen fibers.

No fluorescent (optical) brighteners shall be added to the pulp or paper during manufacture. Fluorescence, due to residual white water, broke, or natural fibers, is permissible; provided the increase in reflectance, measured with and without the ultraviolet component of a light source of 3100 kelvin in combination with a C.I.E. (International Commission on Illumination) Z (blue) filter, does not exceed 2.0 pct.

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

Acidity: pH value shall average not less than 6.5.

Grammage (g/m²) 120
Basis weight: 17 by 22 inches, 500 sheets (pounds) 32
A tolerance of ±5 pct shall be allowed.

Folding endurance: Average, each direction, not less than—
M.I.T. (double fold) 400
Schopper (double fold) 500

Ruling and writing qualities: Lines ruled or 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.

Watermark: Paper shall not be watermarked.

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 brightness not less than 80 pct. The color variation shall not exceed DE(CIELAB)=1.0.

Finish: Paper shall have a cockle finish.

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*.

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

Sizing: Paper shall be surface-sized with high-grade animal glue 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 is allowed.

For information only, the CIELAB values (Ill D65, 10° observer) of the color standard are

$L^*=94.0$
 $a^*=-0.5$
 $b^*=4.0$

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.

Mill inspection: The use of this paper requires the highest degree of accuracy in printing and binding operations. The manufacturer shall inspect the paper to eliminate all waste, scrap, and paper with torn sheets, turned corners, slime spots, dirt, and other foreign matter which will detract from the appearance of the paper.

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 recovered fiber content. If a postconsumer recovered fiber content is desired in the paper, that number will be stated in the procurement document. Note, recovered material (cotton/linen) is not a postconsumer recovered fiber.