

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

For face and back and offset printing of open forms, ledgers, notices, posters, etc., requiring execution with pen and ink and erasing quality. Printed matter may include text, line illustrations, halftones, and solid reverses.

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

Stock: Groundwood pulp, not to exceed 1 pct. The total lignin content of the paper shall not exceed 3 pct of the fiber weight.

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

Acidity: pH value shall average not less than 6.5 for white paper and 5.0 for colored paper.

Grammage (g/m ²)	90	105	120	165
Basis weight: 17 by 22 inches, 500 sheets (pounds)	24	28	32	44
A tolerance of ±5 pct shall be allowed.				

Bursting strength: Average, not less than (kPa)	150	170	190	250
Equivalent (lb/in ²)	22	25	28	37

Tearing strength: Average, each direction, not less than (mN)	340	490	580	880
Equivalent (grams)	35	50	60	90

Thickness: Average (mm)	0.105	0.120	0.135	0.185
Equivalent (inch)	0.0041	0.0047	0.0053	0.0073

A tolerance of ±0.013 mm (0.0005 inch) shall be allowed. Paper shall be uniform and shall not vary more than 0.011 mm (0.0004 inch) from one edge to the other.

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

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 the brightness of the white paper not less than 81 pct. The color variation shall not exceed DE(CIELAB)=1.0.

For colored stock, paper shall match one of the established standards. The standards are blue, buff, green, salmon, or yellow. 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.

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.

Finish and formation: Shall be uniform.

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.

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 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.

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

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

L*=93.3
a*=1.0
b*=-2.0

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.

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.