

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

For face and back offset printing. The 45 g/m² paper is generally for use on open forms, including multiple copies, one side only. The 60 g/m² paper and heavier are used in printing books, pamphlets, catalogs, open forms, etc. Printed matter may include text, line illustrations, and ruled forms. Halftones and reverse prints may be included on the 75 g/m² paper for offset printing by simultaneous face and back, blanket to blanket production. Slitting, pasting, and/or cross perforating are included in press capabilities. When stock is used on open forms, including multiple copies, one side only, for scratch paper, note pads, tablets, opacity of stock is not a specified factor.

Stock: Groundwood pulp, not to exceed 1 pct.

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.

Grammage (g/m²)	45	60	68	75
Basis weight: 17 by 22 inches, 500 sheets (pounds)	12	16	18	20
A tolerance of ±5 pct shall be allowed.				

Folding endurance: Average, each direction, not less than—

M.I.T. (double folds)	7	8	8	8
Schopper (double folds)	12	16	16	16

Opacity: Average, not less than (percent)

.....	83	84	85
No individual specimen shall average less than (percent)	81	82	83

Note: This property is automatically waived if paper is used for the production of scratch or note pads (tablets).

Thickness: Average (60 and

75 g/m ² only) (mm)	0.075	0.095
Equivalent (inch)	0.0030	0.0037

A tolerance of ±0.011 mm (0.0004 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 and characters written with ball point and felt tip pens shall be clear cut and free from excessive feathering.

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 79 pct for the white paper or as specified. The color variation shall not exceed DE(CIELAB)=1.0.

For colored stock, paper shall match one of the established standards. Standards are blue, buff, green, pink, 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.

Finish and 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*.

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 or sheet-fed offset presses equipped with continuous flow or brush dampening systems.

Tensile strength: For roll stock only, average, not less than—

Machine direction (kN/m)	1.3	2.5	3.1	3.5
Cross direction (kN/m)	1.1	1.2	1.3	1.4
Equivalent—				
Machine direction (kg/in)	3.4	6.4	7.9	9.0
Cross direction (kg/in)	2.8	3.1	3.4	3.6

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.

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, left, 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).

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.