

Bid List 0500

P# 257435

SPECIFICATION

Ink, Black, Special, Record Group 59
Property No. 59

Printing Characteristics

The ink is used with magnetic saddle mounted nyloprint plates and shall give clean sharp prints at speeds up to 21,000 impressions per hour. It shall give adequate coverage for both line cut and text matter.

Drying Characteristics

a. On the Press

The petroleum oil base ink shall not dry on the press while running and on presses standing from shift to another without wash ups.

b. On Paper

The petroleum oil base ink shall be quick drying, resistant to smearing and suitable for use on newsprint and on hard surface papers such as Chemical Wood Writing and Newsprint Stock. No gas burners are used for drying.

Press Characteristics

The petroleum oil base ink shall not take or build up excessive deposits on the second cylinder. The press uses varsol wipers on the second side impression cylinder. The ink shall not create deposits on bars or idlers as web traverses folder thus resulting in smears or streaks sufficient to impair the quality of the finished product.

Tack Characteristics

The petroleum oil base ink shall not have a tack greater than seven at 1200 rpm on the inkometer nor shall it cause picking of fibers with subsequent fill up of the type. On the tackoscope instrument the ink shall exhibit no change in tack over a three minute period at a speed of 350 meters per minute and at an elevated temperature of 43 degrees C (110 F) which simulates press conditions.

Color Strength

Color strength must be equal to or stronger than GPO Standard Record News Sample (available upon request) when undergoing the following tests:

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- a. Testing with Prubau. The ink shall be printed on both, record news and 80 lbs. offset book papers, by using 16 divisions of ink and printed under 60 Kp pressure. Printing quality and optical density shall be measured.
- b. Dilution Test. Relative masstone and tinting strength will be done using NAPIM Method and shall equal GPO Standard.
- c. A blue toner is to be added to get the required color strength.

Misting

Ink misting that occurs shall be no more than that of the standard.

Odor

The ink shall have no objectionable or injurious odor.

Sample Requirement

A one pound sample is needed for a preliminary lab test.

Performance Test

Final approval of any ink is dependent on a press performance. A one drum sample of all new ink formulations will be submitted for press testing after complying with the lab tests. If the ink passes the initial press performance more drums may be purchased to complete the press tests.

Qualified Product List

Sun Chemical - Product No MI-87-4666

U.S.P.I. - Product No. ER11812

Packaging

The ink is to be packaged in 2,500 lbs tote tanks rather than 55 gallon drums (unless notified otherwise by the Chief, Graphic Supplies Division).