Case-Hard 4C Process

If you’re looking for a rub-resistant process series that sets fast, call Gans today! Our new Case-Hard process inkset combines the latest vehicle technology with our proven colorants for the hardest finish achievable with ink on paper. This cost-effective series will allow you to embrace those dull and silk paper finishes all over again, without fear!

TECHNICAL PERFORMANCE DATA

- **Case-Hard Item Numbers**
  - Black - A132330
  - Cyan - A132331
  - Mag - A132332
  - Yelo - A132333

- **Ink Tack Readings**
  - Black - 17
  - Cyan - 16
  - Mag - 15
  - Yelo - 14

The above tack readings are taken at 1200 RPM, 1 minute, 90° F, Thwing Albert 101 Inkometer.

This series exhibited virtually NO MISTING!

- **Set Speed**
  - Gans Case-Hard process series rated 351 out of 400 on Gans’ internal scale for set speed. While not achieving the same set-speed as our ultra quick-set process series’ (Resolution, Seaside), for a high-solid, hard-dry formulation that traditionally requires 72 hours for total polymerization, Gans Case-Hard process inkset is the fastest setting rub-resistant ink we’ve formulated ever!

- **Scuff-Resistance**
  - Overall, this process inkset rated a 36 out of 40 on Gans’ internal scale for scuff-resistance, our highest rated inkset! This test is performed on a #1 gloss coated sheet, without aqueous coating, 24 hours after printing. Gans Case-Hard process series will exhibit excellent scuff-resistance on gloss, matte, and dull coated, as well as most other paper substrates that require post-processing.

- **Solid Overprint Trapping**
  - At the above solid ink densities on a #1 gloss sheet, Gans Case-Hard process inks trapped as follows:
    - Red - 73%
    - Green - 89%
    - Blue - 73%

- **Solid Ink Densities After 24 hrs**
  - Black - 1.70
  - Cyan - 1.35
  - Mag - 1.45
  - Yelo - 1.00

The above measurement device settings are: Illuminant D50, 2° observer angle, Status T, without polarization or UV filters. Paper white has been zeroed out. Print testing on a #1 gloss sheet, without aqueous coating, has shown approximate density dryback to be (in density points):

- Black - 19
- Cyan - 5
- Magenta - 1
- Yellow - 1

- **TVI (Dot Gain) @ 50%, AM 175 Line**
  - At the above ink densities on a #1 gloss sheet, with no AQ, Gans Case-Hard printed extremely sharp, even at 15,000 IPH!
  - Black - 22%
  - Cyan - 16%
  - Mag - 18%
  - Yelo - 18%

- **Stay Open (Skin-time)**
  - Gans Case-Hard process series will not begin to develop a skin in the can or the fountain for at least 15 hours. Extreme ambient temperatures will affect this stay open period.

- **Ink Glossiness**
  - At a 60° angle Gans Case-Hard showed a gloss reading of 65.3 units over 340% ink coverage on a #1 gloss coated sheet, without aqueous coating. Keep in mind that the paper stocks this series will perform best on, uncoated, dull and matte coated, do not hold out a glossy ink finish without additional press passes.

- **Post Processing**
  - This series is not considered finishing friendly for UV coating, foil, lamination or laser imaging. Gans Case-Hard was formulated to have the hardest, slickest finish achievable, consequently, post-processing is not recommended.

Call Gans Ink today for a trial sample of our Case-Hard rub-resistant process series, you’ll never go back!