



**GANS INK
& SUPPLY CO.**



**LONGEVITY
THROUGH
INTEGRITY**

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!