

HP2580 Ink Performance Summary in the 45si 'A' cartridge vs 45si 'B'

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Guidance for when to use B3F58A vs B3F58B

Differences in performance of HP2580 ink between 45si 'A' cartridge and 45si 'B' cartridge

Use the A pen when the following are important

Maximum substrate coverage

- Certain media show better print quality with the A pen, independent of factory conditions – such as untreated PP, LDPE

High temperature factory (>35C)

- Decap (time without servicing) is better with A pen in hot factory

High humidity factory (>50% RH)

- Certain media show better dry time with the A pen, especially in high humidity conditions- such as Varnish/Glossy media

Use the B pen when the following are important

Shelf Life

- Longer warrantied shelf life with B pen (9 mo. vs 6 mo.)

Regulatory

- B pen materials and mfg. practices are expected to be compliant with EU regulations and guidelines for Product ID printing on certain food packaging materials. Expected in 2HFY17

Lead time

- B pen has shorter lead time

Consistent delivered ink

- B pen has more consistent DIV and higher DIV horizontally

Consistent drop volume

- B pen has more consistent drop volume over life of the pen



Performance dashboard

Differences in performance of HP2580 ink between 45si 'A' cartridge and 45si 'B' cartridge ₁

Performance Category	A	B	Notes on areas of Difference
Delivered Ink Volume (horizontal) ₂	25 ml	31 ml	A has lower average DIV with more variation
Delivered Ink Volume (vertical) ₂	35 ml	34 ml	A has more variation in DIV
Drop Volume ₂	36 pl	38 pl	A has lower drop volume with more variation over life B has higher drop volume with less variation over life
Dry Time/Smear			A has better dry time/smear with coated foil
			A has better dry time/smear with AQ coatings, UV/Varnish Media
Lead Time	60 days	30 days NA & EMEA 45 days APJ	A has lead time of 60 days B has lead time of 30 days NA/EMEA and 45 days APJ
Print Quality from Substrate Wettability			A has better spreading on untreated BOPP, LDPE, PP, giving better PQ/OD and dry time/smear
Shelf Life	6 months	9 months	A has 6 month shelf life B has 9 month shelf life
Thermal-Decap			A has better startup when a pause in printing follows heavy printing, especially in high temperature environments

Source/Footnote:

1. Results base based on HP internal testing

2. The value is an average