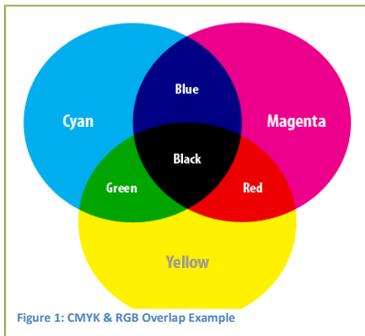## Nazdar T7 Halftone Inks

Nazdar T7 Halftone Inks are designed to move printers past the first stage of G7 qualification (grayscale) to the second level or G7 Targeted. Moving to the second level of G7 is only achievable with an ink set that can meet the L*a*b* targeted values for CMYK mass tones and RGB overprint colors as specified in ISO 12647-2. Below are the general guidelines to achieve the color values and a list of Nazdar T7 Inks.

ISO Specifications

Printing specifications are outlined in reference print conditions. ISO 12647-2 outlines the L*a*b* target values for CMYK inks and the overprints made with those inks. The reference print condition for GRACoL 2006 Coated #1 are commonly used for proofing and profile targets.

Figure 1: CMYK & RGB Overlap Example

In order to simulate the closest possible color to this type of proofing, an ink set must be able to meet the L*a*b* ink values less than or equal to a delta e of 5 when printed on a substrate that has a white value of the #1 coated paper.

The Nazdar T7 inks will achieve this level of color fidelity allowing the printer to finally reach G7 targeted status.

Printing Process

Nazdar has found that the following densities and print sequence gives the best results for achieving the ISO color values.

Cyan density-	1.45 to 1.50
Yellow density -	0.95 to 1.00
Magenta density -	1.25 to 1.30

Nazdar found that the cyan, yellow, magenta print sequence achieved the best ΔE values. Changes to the print sequence significantly affect the RGB ΔE values.

Halftone Black is used for highlighting purposes.

Nazdar Inks

1600 PowerPrint® UV Screen Ink Series (MTR & LTR)

Item Number MTR Halftones	Item Number LTR Halftones	Color
16141	16121	Halftone Cyan
16146	16126	Halftone Magenta
16147	16127	Halftone Yellow
16151	16131	Halftone Cyan Dense
16157	16137	Halftone Yellow Dense
16144	16124	Halftone Black
16154	16134	Halftone Black Dense

1800 PowerPrint® Plus UV Screen Ink Series (MTR)

Item Number	Color
18141	Halftone Cyan
18146	Halftone Magenta
18143	Halftone Yellow
18151	Halftone Cyan Dense
18153	Halftone Yellow Dense
18144	Halftone Black
18154	Halftone Black Dense

1900 PowerPrint® Banner UV Screen Series (MTR)

Item Number	Color
19141	Halftone Cyan
19146	Halftone Magenta
19143	Halftone Yellow
19151	Halftone Cyan Dense
19153	Halftone Yellow Dense
19144	Halftone Black
19154	Halftone Black Dense

4200 UV Screen Ink Series (MTR)

Item Number	Color
42141	Halftone Cyan
42146	Halftone Magenta
42EC143	Halftone Yellow
42151	Halftone Cyan Dense
42EC153	Halftone Yellow Dense
42144	Halftone Black
42154	Halftone Black Dense