

OPERATING TEMPERATURES FOR THE DTG TEX DP INKS

It is recommended that the printer be kept in an air-conditioned environment, with temperatures no less than 5° Celsius (41°F) and no more than 30° Celsius (86°F) with humidity levels between 40 and 70%.

DTG Tex DP textile inks

The DTG Digital M series range of printers have eight channels of colour in the print head. Each channel passes ink through the print head by way of 180 very fine (< 0.075 mm diameter) nozzles. When using white ink 4 channels are allocated. White Ink is a water based titanium dioxide / binder / carrier mix.

The titanium dioxide is ground into a fine powder and mixed with other binders to allow it to dry and adhere to the pre-treated fabric. Titanium dioxide is what gives the ink its bright white properties, and this brightness gives the coloured ink layer a vibrant and rich colour.

White ink properties and maintenance

Because of the chemical properties of white ink it requires much more maintenance than the colour inks. Titanium dioxide is a mineral and does not dissolve in liquids. This means that the titanium dioxide will settle to the bottom of the container over a period of time (being the ink bottles, ink tubes and / or dampers).

Once complete separation of the titanium dioxide from the binders and other components occurs in the ink it cannot be reversed!

Your DTG Printer has a ground breaking WIMS system that keeps the ink "moving" in the ink tubes and dampers. However, it is recommended that at minimum you perform a head clean on the printer every day when you are not printing with white ink and preferably that you also print a small image with white ink daily.

If the DTG printer has not printed white ink for a few days, you may need to execute 1-3 head cleans in a row to move sufficient ink to overcome the separation in the dampers and print head.

Keep the ambient temperature of the printer and the inks between 5 & 25 degrees Celsius.

A normal operating temperature of between 15 – 25 degrees Celsius is recommended.

Excessive heat will damage the operational efficiency of the ink and the printer.

Keep the printer away from locations with high humidity (above 85%)

