

# SunLit® Titan

## 1. Description

SunLit Titan is a sheetfed offset ink based on a patented technology which has been designed for commercial and publication printing when fast processing is required.

## 2. Product features

SunLit Titan inks:

- are available as a 4 process colour offset ink set
- are based on a combination of vegetable and mineral oils
- are duct fresh
- comply with the ISO 2846-1 and is optimised to print according to the international standard norm ISO12647-2
- are oxidative drying
- are compatible with all aluminium based plates including CtP plates and conventional positive or negative plates

## 3. Product Suitability

### 3.1 Applications

SunLit Titan is intended for use in paper offset printing. The ink is suitable for straight ahead printing on all sizes of sheetfed printing machines.

The ink is not suitable for the following applications:

- Printing on foils or nonabsorbent substrates
- Poster printing
- Food packaging applications
- Waterless offset printing

### 3.2 Substrates

SunLit Titan ink is suitable for the following substrates:

- matt/silk coated paper
- gloss coated paper
- uncoated paper (“offset paper”)

NB: Absorbancy of the paper has a high impact on the drying performance and the gloss of the print. Uncoated substrates have higher variations than coated ones



### 3.3 Varnishability

Printed sheets with SunLit Titan can be overprinted either with an oil based overprint varnish or a water based overprint varnish, but according to the ink profile this is neither intended nor required. The impact to the ink fastness has to be taken into consideration.

## 4. Colour Range

SunLit Titan is supplied as a finished ink. The process inks comply with ISO2846-1 and allow the printers to deliver jobs compatible with the international standard ISO12647-2.

The following table sums up the light fastnesses and the resistances corresponding to the 4 process colours:

PROCESS COLOURS	PRODUCT CODE	LIGHT FASTNESS ISO 12040**	ALCOHOL ISO 2836**	SOLVENT MIXTURE ISO 2836**	ALKALI ISO 2836**
SUNLIT TITAN Process Black	<b>TTN46</b>	7	-	-	+
SUNLIT TITAN Process Cyan	<b>TTN07</b>	8	+	+	+
SUNLIT TITAN Process Magenta	<b>TTN27</b>	5	+	+	-
SUNLIT TITAN Process Yellow	<b>TTN41</b>	5	+	+	+

\*\* For more information regarding these standards, please contact your local SunChemical representative.

## 5. General Handling

### 5.1 General

The use of SunLit Titan will not require any different handling in comparison with a conventional sheetfed ink. The use of press auxiliaries is not recommended.

To achieve their full performance SunLit Titan inks should not be mixed with other offset inks.

Acceptable technical performance of SunLit Titan inks is dependent on the paper quality.

### 5.2 Storage

SunLit Titan should be stored at ambient temperature between 5°C and 35°C. Under these conditions SunLit Titan has a shelf life of at least 12 months in a non opened container.



### 5.3 Waste disposal

SunLit Titan ink wastes should be handled as any other sheetfed ink waste. This should be carried out in accordance with good industrial practice, observing all the appropriate regulations and guidelines of the local area. Paper waste printed with SunLit Titan can be disposed as usual in the paper bin.

## 6. Printing Conditions

### 6.1 Fount Solution

SunLit Titan does not require to be run with a special fount solution. However SunChemical recommends the use of SunFount products to achieve optimal performance.

SunFount™ 410 is suitable for 5-10% IPA in normal water qualities.  
SunFount™ 480 is suitable for 5-7% IPA, where reduced tendency to roller glazing is required.

SunLit Titan can be run with low dampening settings on press. This results in optimum ink drying and in accurate image reproduction.

### 6.2 Printing Plates

SunLit Titan can be run with any type of aluminium based printing plates (CtP plates, conventional positive or negative plates).

### 6.3 Influence of IR drier

The use of IR drier will have a further positive effect on the drying ink performance and will both further reduce the waiting times in the print shop and increase the gloss of the printed sheets. To avoid any risk of blocking, the temperature of the IR drier should be adapted to the paper quality.

### 6.4 Press cleaning

After having printed with SunLit Titan ink the press can be easily cleaned using standard press washes.



## 7. End-use safety

SunLit Titan is a mineral oil based ink series intended for sheetfed offset printing.

All Sun Chemical products are formulated to the latest CEPE/EuPIA guidelines. This excludes the use of carcinogenic, mutagenic and toxic for reproduction (CMR 1 and 2) or labelled (T) according to the Dangerous Substances Directive 67/548/EEC, substances classified as very toxic (T+) or toxic (T) and pigments based on compounds of Antimony, Arsenic, Cadmium, Chromium (VI), Lead, Mercury, Selenium. The use of certain dyes, solvents, plasticisers and miscellaneous materials are also excluded. A copy of the document is available on the EuPIA website: <http://www.eupia.org>

SunLit Titan also complies with EN71/3 (suitability for toy packaging).

## 8. Disclaimer

This list of applications, substrates and processes provided in this document is not exhaustive. Please contact your local Sun Chemical representative for full technical evaluation of your application or process.

The performance of the product and its suitability for the customers' purpose depend on the particular conditions of use and materials being printed. Therefore, any statement provided in this document should not be construed as providing a guarantee of performance in a specific application area. Sun Chemical always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial applications.

This product is not suitable for food packaging.

## 9. Technical Assistance / Contacts

For further information, please contact your local Sun Chemical team or visit our website on [www.sunchemical.com](http://www.sunchemical.com)

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Our Products are intended for sale to professional users. The information herein is general information designed to assist customers in determining the suitability of our products for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.