## TOYO UNIVERSE SF PROCESS
## TU-1000 SERIES

**TOYO UNIVERSE SF** Process series are developed for sheet-fed offset printing process. These series inks are universal and economical for printing on almost every kind of paper and board. It is suitable for all dampening systems. Due to the renewed and developed formulation, it sets onto paper surface instantly and dries fast. Thanks to this properties it is suitable for short runs and fast back-ups and shortens the printing time period.

TOYO UNIVERSE series inks are formulated to meet the requirements of ISO 2846:1 standards.

## Technical Properties

➢ High gloss
➢ Good rub and scratch resistance
➢ Very good ink-water balance
➢ Excellent dot sharpness
➢ Good runnability and press performance
➢ Fast setting and drying
➢ Suitable for fast back-ups
➢ Optimum colour strenght and print density
➢ Good ink transfer even at high speed
➢ Inks can be left 48 hours in the duct
➢ Suitable for UV varnishing

## Specifications

### Physical Properties

|  |  |
|---|---|
| Base | : | Vegetable, Mineral oils / ink resins |
| Shade | : | Process colours |
| Tack | : | 7,0-9,0 – 10 (400 rpm/32°C/Inkometer) |
| Solid Content | : | % 45 - 75 |
| Density | : | 1,0.-.1,1 g/ml |
| Drying Mechanism | : | Oxidation/penetration |
| Viscosity | : | 40 - 65 Pa.s. (23°C, CP50, 25s$^{-1}$, Anton Paar MCR101) |
| Flash Point | : | >100 °C |

### Application Properties

| | | |
|---|---|---|
| Application Method | : | Litho offset |
| Dry Film | : | 1 - 2 gr/m$^2$ |

## Fastness Properties

|  | Light Fastness | Alcohol | Alkali | Nitro | Transparency |
|---|---|---|---|---|---|
| *TU-1200 TOYO UNIVERSE PROCESS YELLOW* | 5 | + | + | + | ○ |
| *TU-1600 TOYO UNIVERSE PROCESS MAGENTA* | 5 | + | (+) | + | ○ |
| *TU-1100 TOYO UNIVERSE PROCESS CYAN* | 8 | + | + | + | ○ |
| *TU-1500 TOYO UNIVERSE PROCESS BLACK* | 8 | + | + | + | ● |

## Storage and Shelf Life

Place away from sources of heat, ignition and direct sunlight. Could be stored in tightly closed pails/ containers, indoors at normal room temperature (20°C) for 5 years.

The above information is based on our laboratory tests. Variety of the conditions may affect the results. In this case please contact to our technical department.

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For a Vibrant World