

Applications & Markets:

Sheet-fed offset commercial printing and packaging

Advantages & Features:

Vegetable/mineral oil based, economical,
universal, optimum print performance

UNIVERSE

Vegetable/mineral oil based conventional sheet-fed offset ink 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. TOYO UNIVERSE series inks are formulated to meet the requirements of ISO 2846:1 standards.

TECHNICAL PROPERTIES

- High gloss
- Good rub and scratch resistance
- Good ink-water balance
- Excellent dot sharpness
- Good runnability and press performance
- Fast setting and drying
- Suitable for fast back-ups
- Optimum colour strength 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
Tack	: 7,0 - 9,0 (400 rpm/32°C/Inkometer)
Solid Content	: % 45 - 75
Drying Mechanism	: Oxidation/penetration
Viscosity	: 40 - 65 Pa.s. (23°C, CP50, 25s-1, Anton Paar MCR101)
Application Method	: Litho Offset
Dry Film	: 1 - 2 gr/m ²

Fastness Properties

	Light Fastness	Alcohol	Alkali	Nitro	Transparency
TU-1200 Process Yellow	5	+	+	+	●
TU-1600 Process Magenta	5	+	(+)	+	●
TU-1100 Process Cyan	8	+	+	+	●
TU-1500 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.