

TIGITAL® Solvent-based Inorganic Marking ink

Series 142/1.0

Properties

Viscosity	50 °C	5 – 10 mPas
Thixotropy		0 – 3 D/cm²
Surface tension	25 °C	24 – 28 dyn/cm
Drying temperature	100 – 160 °C	Infrared and hot air
Curing temperature	580 – 650 °C	The duration depends on thickness of glass.

Colors

- Series 142/11100 white
- Series 142/11200 yellow
- Series 142/11130 red
- Series 142/11400 cyan
- Series 142/11800 black
- Series 142/11300 pink
- Series 142/11150 Green

Shelf life

6 months

Package sizes

- 1 l PE bottles (black)
- 5 l PE container
- Additional sizes on request

Recommended cleaning and flushing fluid

TIGER Flush 151/00013

Applications

TIGER Marking inks are solvent-based systems that can be used to print on flat glass. After printing, the inks must be dried using infrared radiation and/or hot air. The print layers can be fused during production of tempered single-pane safety glass. The inks were developed for use in DOD piezo printing heads.

These inks are characterized by outstanding wet and dry adhesion on glass. Before printing, the glass surface must be cleaned carefully to ensure that the surface is free of dust and grease. After completion of the cleaning process, the inks can be applied to the glass surface. All solvents must be removed during the subsequent drying process to ensure flawless fusing.

The print layers are characterized by outstanding adhesion in dry as well as wet conditions; the use of only inorganic components they also results in excellent mechanical and chemical stability.

Printing conditions

Depending on the type of printing head selected, the inks can be processed at temperatures up to 50 °C. Due to the settling of the fritted-glass filter and pigments, ink distribution in the printing machine is very important.

Compatibility of materials

Compatible materials:

- PP
- PE (HD + LD)
- Stainless steel
- PTFE
- EPDM rubber

Incompatible materials:

- PVC
- Butyl rubber
- Brass
- Viton
- Nitrile plastics
- Polyurethane rubber
- Neoprene

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EN ISO 9001 / 14001



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