

Preliminary Technical Data Sheet

Dokumental® IM 82xx Industrial Marker Inks

Industrial Marking Inks for reservoir markers

General Information

Our Industrial Marking Inks Dokumental® IM 82xx are designed for writing on wet and oily surfaces. The inks are primarily intended for use on construction sites and other outdoor or indoor craft applications as well as industrial applications where marking on wet and/or oily surfaces is required. The inks are low odour, formulated without xylene and have very good lightfastness.

Suitable Surfaces

Smooth surfaces

Applicable Standards & Regulations on Request

Physical Data

Type	Colour	Viscosity at 20°C mPa s ± 1.0	pH -Value	Lightfastness on PVC-foil**
Dokumental® IM 8200	blue	3.0	4.5 - 5.5	very good
Dokumental® IM 8210	black	4.0	4.5 - 5.5	very good
Dokumental® IM 8220	red	3.0	4.5 - 5.5	very good

** according to ball point pen standard ISO 12757 part II

Technical Advice

Suitable Components

The ink is not suitable for polypropylene and polyethylene marker parts.

Nibs:	polyester, acrylic possibly suitable (not yet tested) e.g. Teibow EL-250PN
Reservoirs:	polyester, (polypropylene not suitable)
Barrels:	polyamide (NYLON), aluminum (polypropylene not suitable) For aluminum corrosion tests need to be conducted in order to approve the compatibility
Caps, Plugs:	polyamide

All materials, which get into contact (short term and long term) with the inks in the writing system like nibs, reservoirs, barrels, plugs and caps etc. must be tested for compatibility. As this ink type is very new, there is only limited experience concerning shelf life of markers. Therefore thorough shelf life tests need to be conducted. We recommend positional storage tests (nib →, ↓, ↑) at elevated temperatures (40 °C or 50 °C) for at least 3 months.

All such contact materials may not release any contaminations to the inks. Contamination of the inks may lead to undesirable effects like performance loss and/or reduced shelf life.

Storage, Handling & Transportation

Before use of our product the filling station has to be maintained and cleaned carefully. The inks are sensitive to any kind of contamination. Cross-contamination of the inks may lead to a colour mismatch or will even lead to a defective marker or shorter shelf life.

Store our product and the produced writing instruments frost protected and avoid direct sunlight. The recommended storage temperature for the ink in the original containers 10 °C to 30 °C. Storage temperatures of above 30°C bear the risk of a reduced shelf life of the inks and the writing system. The recommended storage temperature for best shelf life of the produced writing instruments is 10 to 25 °C.

The shelf life of the inks in original sealed containers is 2 years.

After usage the drums have to be closed again tightly. Horizontal storage of the markers is recommended in order to get the maximum shelf life.

CAUTION: the inks are classified as flammable liquids! For detailed safety information refer to the respective Material Safety Data Sheets.

Packaging

standard packaging: to be defined

Produced by

DOKUMENTAL GmbH & Co KG
 Wöllnerstraße 26
 D-67065 Ludwigshafen
 Phone: +49(0)621/37702-200
 Fax: +49(0)621/37702-391
 Mail: info@dokumental.de
 www.dokumental.de