

F.I.T.

Filterability Index Tester

WHAT IS THE FILTERABILITY INDEX OF A LIQUID?

1. It is the clogging value of a liquid
2. It is the only parameter for evaluating the **possibility for a liquid to be micro-filtered**.

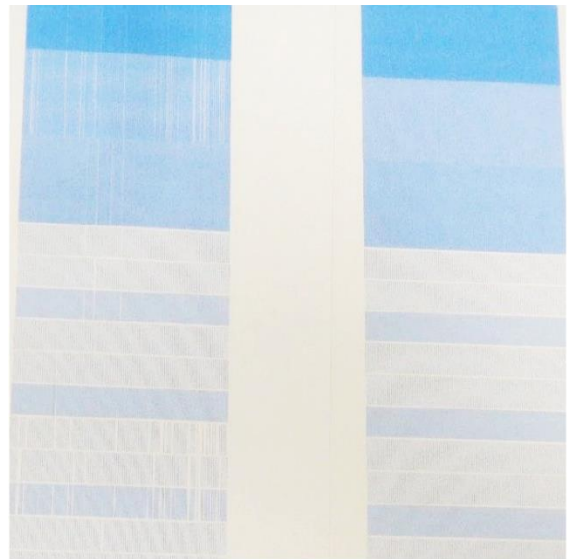
WHAT IS THE Vmax OF A LIQUID?

The maximum volume in liters that will pass through the test filter (1 Micron) before blocking.



MAIN ADVANTAGES THANKS TO A GOOD F.I.

1. It reduces the consumption of the filters of the digital printers
2. Less resistance created inside the circuit of the digital printers which results in:
 - Lower turbulence
 - Less vacuum
 - Constancy of the ink flow in the circuit
 - Increased life time of printheads, pumps and filters
3. Higher tolerance in the waveform (the ink may perform with different waveforms)
4. Higher tolerance in the voltage and in the pressure
5. Small costs in the industrial filtration process



HOW DOES F.I.T. WORK?

Software detects the weight of the inks passing through a predetermined filter (frequency of detection: every second) providing the following info:

Total weight of ink
Filtration time
Vmax – maximum filterable volume
FI - Filterability index

ATTENTION

Standard analysis (PSA, Viscosity, Surface tension) of the inks do not show if an ink can be more filterable than one other

DIFFERENCES BETWEEN SIMILAR (SAME) INKS

Two inks that are made with the same:

- Pigment
- Liquid part
- Formula
- Filtering
- Density
- Surface tension
- PSD
- Final viscosity

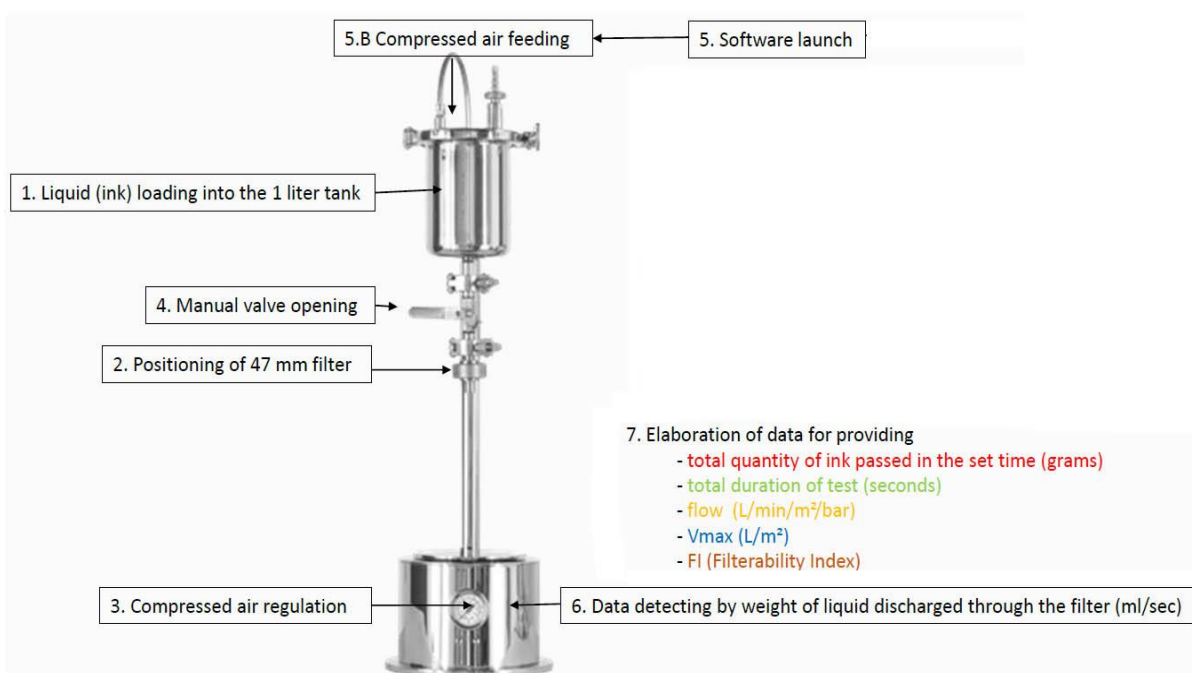
Can be considered as the same ink? **NO!**

	Q,ty Q.tà	Time Tempo	Flow Flusso	FI FI	Vmax Vmax
INK#1 INCHIOSTRO #1	155,1	119	0,004	43,3	194
INK#2 INCHIOSTRO #2	210,7	44	0,014	2,3	1.605
RATIO Rapporto			x3,5	x18,8	x8,27

F.I.T. is the only solution that allows to verify the quality of the ink in an independent way, without the need of loading the ink in the printer, print on tile and fire the sample.

F.I.T. consists of a pressurized ink container under known pressure, a filter system (with disposable paper filter), a scale and software.

The laptop is optional.



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