

GELATIN LIFTERS FOR CRIMINAL INVESTIGATIONS

Material description

Lifters for use in criminal investigations are designed for lifting prints (fingerprints, shoeprints etc.) and traces from various objects in criminal investigation practice.

The product consists of the following basic parts:

- base pad
- gelatine layer
- cover foil

Depending on the type of base pad used, on which the sensitive gelatine layer is applied, the following versions are manufactured:

1. LIFTERS ON PAPER OR POLYESTER BASE

a) Transparent – type P

The base pad used is a clear polyester pad 0.10±0.02 mm thick with a basis weight of 140-160 g/m².

The lifter has a 0.5-0.6 mm thick transparent gelatine layer with a basis weight of 600±160 g/m². It is designed for capturing traces exposed on slightly to medium uneven surfaces.

b) Black – types OC, 2OC, 3OC, 2OC2

They have a 0.5-0.6 mm thick black coloured gelatine layer with a basis weight of 600±160 g/m².

They are designed for capturing traces exposed by fingerprint powders of a light colour on slightly to medium uneven surfaces and suitable for scanning.

The different types are distinguished by the paper base pad used and the sheet weight as per the table below.

Special type 2OC 2 has a thicker black gelatine layer of 0.7-0.8 mm. Suitable for trace evidence.

c) White – types OB, 2OB, 3OB, 2OB2

They have a 0.5-0.6 mm thick transparent gelatine layer with a basis weight of 600±160 g/m².

They are used for capturing traces exposed by dark fingerprint powders on slightly to medium uneven surfaces.

Special type 2OB 2 has a thicker white gelatine layer of 0.7-0.8 mm. Suitable for trace evidence.

The different types are distinguished by the base pad used and the sheet weight as per the table below.

Types	Base pad basis weight [g/m ²]	Base pad type	Base pad thickness [mm]	Weight of format 13x18 cm [g]
P	150±10	Polyester	0.100	16.0-26.0
OC, OB	110±8	Paper, laminated on both sides	0.110	16.0-26.0
2OC, 2OB	226±8	Paper, laminated on both sides	0.220	20.0-30.0
3OC, 3OB	160±10	Paper, smooth baryte	0.160	18.0-28.0
2OC2, 2OB2	226±8	Paper, laminated on both sides	0.220	28.0-38.0

All lifter types have a 0.10±0.01 mm thick transparent polyester foil with a basis weight of 100-120 g/m² as the cover foil.

The OC, 2OC, OB, 2OB types have a layer of polyethylene laminated at the back to prevent material drying or moistening.

2. LIFTERS ON RUBBER BASE PADS

a) Black – type 6OC2

They have a 0.6-0.8 mm thick black coloured gelatine layer on a rubber base pad 0.6 mm thick. They are suitable for scanning.

b) White – type 6OB2

They have a 0.6-0.8 mm thick white coloured gelatine layer on a rubber base pad 0.6 mm thick. They are suitable for capturing traces using dark fingerprint powders.

Types	Base pad basis weight [g/m ²]	Base pad type	Base pad thickness [mm]	Weight of format 13x18 cm [g]
6OC2	840±30	Fabric with rubber on both sides	0.600	40.0-50.0
6OB2	840±30	Fabric with rubber on both sides	0.600	40.0-50.0

All types have a 0.10±0.01 mm thick transparent polyester foil with a basis weight of 100-120 g/m² as the cover foil.

3. FINGERPRINT BOOK

The set consists of a transparent lifter with a gelatine layer 0,5-0,6 mm, to which a paper base pad is attached with a basis weight of 250-280 g/m² and 0.25-0.35 mm thickness. After the cover foil has been removed, the trace recorded on the lifter adheres to the attached paper base pad. Thus, the trace is archived as a mirror image.

a) Fingerprint book, white. A white paper base pad is attached to transparent lifter.

b) Fingerprint book, black. A black paper base pad is attached to transparent lifter.

All the types have a 0.10±0.01 mm thick transparent polyester foil with a basis weight of 100-120 g/m² as the cover foil.

Packaging

All the lifters types for criminal investigations are cut into sheets of 13x18, 18x36 and 13x36 cm.

Other sizes can be manufactured by arrangement with the manufacturer.

The sheets are interleaved with a special paper that prevents mechanical damage to the lifter surface.

Lifters in the formats 13x18 and 13x36 cm are packaged in moisture-resistant envelopes containing 10 sheets. Formats 18x36 and 13x36 cm are packaged in envelopes containing also 2 sheets.

The fingerprint books are manufactured in the format 13x36 cm and packed with 10 items.

Storage and transport

Lifters must only be stored in their original packaging (no more than 3 bulk packages on top of each other), in a dry place at a temperature of 10-30°C and a relative humidity of 40-60 %. Observing the prescribed temperature and humidity is essential to preserve the performance of the working layer.

The product must be shipped in covered vehicles and kept in their original packaging, protected against high temperatures, freezing, high humidity and mechanical damage during their transport and storage.

Warranty period

36 months if the storage conditions are observed. In case of non-compliance with the above conditions (temperature, humidity) during transport, storage and manipulation with the material, the manufacturer is not liable for the quality of the goods.

Identification

For the purposes of fingerprint and trace evidence criminal investigation laboratories accredited under ČSN EN ISO/IEC 17025:2005 and analogous standards worldwide, as of 1 January 2007, the manufacturer implements identification on the rear side of each product sheet with the following information:

– product type, emulsion number.

The marking complies with the requirements which must be adhered to by an accredited laboratory in order to demonstrate its competence to provide technically valid results.

The product has been produced and marketed under a quality system conforming to international standard ČSN EN ISO 9001.