

Certificate

of EU type-examination No. UE/453/2020/1437, edition 1

Name of the product:

Filtering half mask

Type (varieties):

MSA Affinity 1110 FFP1 NRD 10128847
OPSLAL by MSA AIR FIT FFP1 NR D 58224251
MSA Affinity 1111 FFP1 NRD 10128848
OPSLAL by MSA AIR FIT V-FFP1 NR D 58224278

Name and address of the manufacturer:

MSA EUROPE GmbH
Schlüsselstrasse 12
8645 Rapperswil-Jona
CH-Schweiz

**The product meets the applicable essential health and safety requirements
included in Regulation (EU) 2016/425 of the European Parliament and of the Council
of 9 March 2016**

Validity period: from 3 September 2020 to 5 December 2024

Head of the Centre
for Certification of Personal
Protective and Working Equipment

A. Stefko
Agnieszka Stefko M.Sc.(Eng.)

.....
signature of the certificate issuer's representative

Warsaw, date 3 September 2020

page 1 of 3

Product description:

The filtering half mask type MSA Affinity 1110 FFP1 NRD 10128847 and OPSIAL by MSA AIR FIT FFP1 NR D 58224251 without the exhalation valve and type MSA Affinity 1111 FFP1 NRD 10128848 and OPSIAL by MSA AIR FIT V-FFP1 NR D 58224278 with the exhalation valve is a complete device, which is a useful respiratory protective device against solid and liquid aerosols.

The filtering half mask type MSA Affinity 1110 FFP1 NRD 10128847 and OPSIAL by MSA AIR FIT FFP1 NR D 58224251 is a one-way half mask in which the air flows in the inhalation and in the exhalation phase through the filtering material.

The filtering half mask type MSA Affinity 1111 FFP1 NRD 10128848 and OPSIAL by MSA AIR FIT V-FFP1 NR D 58224278 is a two-way half mask in which the air flows through the filtering material in the inhalation phase whereas in the exhalation phase through the exhalation valve and the filtering material.

The bowl of the filtering half mask consists of three main layers of nonwovens:

- the outer layer type GW-20/160 of the surface mass of $(160 \pm 15) \text{ g/m}^2$,
- the inside layer which are two layers of electret filtering material melt-blown type WPT-3Rx2, each of the surface mass of $(30 \pm 10) \text{ g/m}^2$,
- the inner layer type GW-20/160 of the surface mass of $(160 \pm 15) \text{ g/m}^2$.

The half mask bowl is fitted with:

- the strap harness made of oring rubber,
- the exhalation valve located at the central of the filtering half mask type MSA Affinity 1111 FFP1 NRD 10128848 and OPSIAL by MSA AIR FIT V-FFP1 NR D 58224278.

Image:

**type MSA Affinity 1110 FFP1 NRD
10128847**



**type MSA Affinity 1111 FFP1 NRD
10128848**



**type OPSIAL by MSA AIR FIT FFP1 NR D
58224251**



**type OPSIAL by MSA AIR FIT V-FFP1 NR D
58224278**

Basic parameters:

class, personal protective equipment category, performance level(s) or protection class of the product

- penetration of sodium chloride aerosol - protection class FFP1 NR
- penetration of paraffin oil mist aerosol - protection class FFP1NR
- breathing resistance - protection class FFP1
- total inward leakage - protection class FFP1
- clogging - protection class FFP1 D
- limited to single shift use only - NR

Identification of the submitted documentation:

- application for EU type-examination No.489/2020 dated 06.07.2020
- agreement on EU type-examination and review of the EU type-examination certificate No146/2020/1437, dated 07.07.2020
- technical documentation of PPE dated 25.09.2019
- agreement No. 04/05/2020 dated 28.05.2020
- user's instructions of filtering half masks types: MSA Affinity and marking dated 17.06.2020
- user's instructions and marking dated 17.06.2020
- manufacturer declaration concerning materials properties dated 17.06.2020

**Product/product model supplied with the EU type-examination application
is compliant with the technical documentation.**

The product meets the requirements of harmonised standard/technical specifications:

EN 149:2001+A1:2009 "Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking"

confirmed by tests performed by:

CIOP-PIB, Department of Personal Protective Equipment, Lodz, Poland

report No.:

20/CR/2017/NO dated 21.02.2017

Marking:

logo of the manufacturer: MSA or OPSIAL by MSA; product identification type: MSA Affinity 1110 10128847 or MSA Affinity 1111 10128848 or OPSIAL by MSA AIR FIT 58224251 or OPSIAL by MSA AIR FIT V- 58224278; protection class: FFP1 NR D; EN 149:2001 (for MSA Affinity) or EN 149:2001+A1:2009 (for OPSIAL by MSA); date of manufacture identifying the batch/serial number

The certificate applies in conjunction with one of procedures of conformity assessment according to C2 module or D module pursuant to Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016

NOTE 1:

Every modification to the product and its technical documentation to which this certificate pertains should be notified to the Centre for Certification of Personal Protective and Working Equipment of the Central Institute for Labour Protection – National Research Institute.

This certificate shall be valid as long as the above harmonised standard may be applied as a basis for product examination.

NOTE 2:

Forging the content and the markings of the certificate or modifying them (including a photocopy or scan), or using such document as authentic is a crime under Article 270 § 1 of the Criminal Code.