



- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 13ATEX0041**

- (4) Equipment or protective system:

ENCLOSURES TYPE AS or ASCS****

- (5) Manufacturer:

NUOVA ASP

- (6) Address:

Via De Gasperi, 26
I-20090 Pantigliate (MI)

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in report No 026039/13.


- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 60079-0	: 2009	EN 60079-0	: 2012
EN 60079-1	: 2007	EN 60079-7	: 2007
EN 60079-11	: 2012	EN 60079-18	: 2009
EN 60079-31	: 2009		

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.
- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.
- (12) The marking of the equipment or the protective system will have to contain:

 II 2 GD

Verneuil-en-Halatte, 2013.10.04



The Chief Executive Officer of INERIS,
By delegation
T. HOUEIX
Ex Certification Officer



(13)

A N N E X

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 13ATEX0041

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

These enclosures of different sizes made in polyester reinforced with fiber glass are covered by ATEX component certificate 13ATEX9007U. They are protected by increased safety "e" for gas atmosphere and protected by enclosure "tb" for dust atmosphere. These enclosures are intended to receive terminals only or terminals and some electrical components covered by an ATEX certificate.

Enclosures, protected by enclosure "tb" are intended to receive the same equipments listed above and/or electrical components not covered by an ATEX certificate and listed in the documentation.

The list of the component is defined on the technical documentation.

These enclosures get the degrees of protection IP65 or IP66 (depending of components installed on the enclosure) according to the EN 600529 standard.

PARAMETERS RELATING TO THE SAFETY

These enclosures are intended to be used in the following ranges of ambient temperature, in accordance with the temperature class T6/T85°C or T5/T100°C, the thermal stability of the terminals and the range of ambient temperature of the component installed in the enclosure:

- minimum ambient temperature from -20°C to -40°C
- maximum ambient temperature from +40°C to +55°C

Enclosures "Ex tb" with internal component and/or terminals:

Maximum power dissipated : see table below

Type of enclosure	Temperature class : T85 °C		Temperature class : T100 °C	
	Tamb :+40 °C	Tamb :+55 °C	Tamb :+40 °C	Tamb :+55 °C
AS...09	11 W	7 W	16 W	11 W
AS...11	16 W	10 W	23 W	16 W
AS...14	22 W	14 W	32 W	22 W
AS...21	24 W	15 W	34 W	24 W
AS...22	38 W	24 W	54 W	38 W
AS...42	46 W	28 W	63 W	46 W
AS...44	91 W	56 W	125 W	91 W
AS...84	166 W	101 W	229 W	166 W
Cable temperature	80 °C		90 °C	

The maximum supply voltage, number of the terminals and the permissible rated current depend of the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents.

Enclosures “Ex e” with internal component and/or terminals:

Maximum power dissipated : see table below

Type of enclosure	Temperature class : T6		Temperature class : T5	
	Tamb :+40 °C	Tamb :+55 °C	Tamb :+40 °C	Tamb :+55 °C
AS...09	5 W	3 W	7 W	5 W
AS...11	8 W	5 W	11 W	8 W
AS...14	11 W	6 W	15 W	11 W
AS...21	11 W	7 W	16 W	11 W
AS...22	18 W	11 W	25 W	18 W
AS...42	23 W	14 W	32 W	23 W
AS...44	46 W	28 W	64 W	46 W
AS...84	61 W	38 W	84 W	61 W
Cable temperature	NA			

The maximum supply voltage, number of the terminals and the permissible rated current depend of the size of the enclosure, the range of ambient temperature and the temperature class. These parameters are described on the descriptive documents

MARKING

Marking has to be readable and indelible; it has to include the following indications:

A- Enclosure “Ex tb” for dust protection :

NUOVA ASP

I - 20090 Pantigliate (MI)

AS**or ASCS** (1)

INERIS 13ATEX0041

(Serial number)

(Year of construction)

⊕ Ex II 2 D

Ex tb IIIC T85°C or T100°C Db IP65 or IP66

...°C ≤ Tamb ≤ ...°C (2)

(Rated voltage and rated current and/or rated power)

WARNING: DO NOT OPEN WHEN ENERGIZED

(1) Type is completed by numbers corresponding to the size of the enclosure.

(2) Indication of the range of ambient temperature if different from -20°C to +40°C

B- Enclosure “Ex e” and “Ex tb” fitted with terminals and components:

NUOVA ASP

I - 20090 Pantigliate (MI)

AS**or ASCS** (1)

INERIS 13ATEX0041

(Serial number)

(Year of construction)

Ex (2) e IIC T6 or T5 Gb

Ex tb IIIC T85°C or T100°C Db IP65 or IP66

...°C ≤ Tamb ≤ ...°C (3)

T. cable = (4)

(Rated voltage and rated current and/or rated power)

WARNING: DO NOT OPEN WHEN ENERGIZED

(1) Type is completed by numbers corresponding to the size of the enclosure.

(2) The marking code Ex is completed by the indication of the type of protection of the component installed in the enclosure in the alphabetical order.

(3) Indication of the range of ambient temperature if different from -20°C to +40°C

(4) Indication when the temperature is higher than 70°C (See table above)

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

Each apparatus defined above has to have successfully passed; before delivery:

- In accordance with clause 7.1 of the IEC 60079-7 standard, a dielectric strength test on each of the different circuits of the connection units, performed according to the relevant standards, the supply voltage shall be applied during one minute.

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.

- Certification file n° 13-263 rev.0F of 2013.08.26 (10 rubrics) signed on 2013.08.26

(17) SPECIAL CONDITIONS FOR SAFE USE

None.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.