



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CQM 25.0011X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-03-26
Applicant: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
Italy
Equipment: **Explosion-proof anticorrosive plug and sockets typed CMBSP07-*/**/** series**
Optional accessory:
Type of Protection: **Flameproof enclosure "db", Increased safety "eb", Dust ignition protection by enclosure "tb"**
Marking: Ex db eb IIC T6/T5 Gb
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Manufacturer: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
Italy

Manufacturing locations: **Cortem S.p.A**
Via Aquileia 10, 34070 Villesse, (Go)
Italy

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/CQM/ExTR25.0011/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/18](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

CMBSPO7-*/*/*** series Explosion-proof anticorrosive plug and sockets are widely used in the explosive environments of the petroleum, chemical and pharmaceutical industries for field wiring connection, in the hazardous areas designated as zone 1, zone 2, or as zone 21, zone 22 (also compatible with Ex t design).

There are two types of product mounting: pedestal mount and panel mount.

Each product consists of plug and socket, adopts a same explosion-proof design: an explosion-proof unsaturated resin enclosure designed as type of protection "e" and "t", and a built-in flame proof cavity for interlocking switch. The product fulfils the requirements of IP66 according to IEC 60529.

Refer to attachment for details of nomenclature and relation between model, ratings, Ex marking and ambient temperature.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to the attachment for details.

Annex:

[IECEX CQM 25.0011X attachment_1.pdf](#)



Attachment to CoC

IECEX CQM 25.0011X Issue 0

**Manufacturer:****CORTEM S.p.A.**

Address: via Aquileia 10, 34070 Villesse (GO) , Italy

Electrical equipment:

Explosion-proof anticorrosive plug and sockets typed CMBSP07-*/*/*** series

Nomenclature:

CMBSP 07 - * / * / * * *

(1) (2) (3) (4) (5) (6)

- (1) Explosion-proof anticorrosive plug and sockets
- (2) Rated current (A): 10, 16, 20
- (3) Rated voltage (V): Max. 250VAC or 36VDC
- (4) Number of cores: 2-Two cores, or 3-Three cores
- (5) Hardware style: Blank-Product complete set, Z-Socket, T-Plug
- (6) Type of mounting: Blank-Pedestal mount, M-Panel mount

Relation between model, ratings, Ex marking and ambient temperature:

Model	Ex marking	Ta	Wire diameter	Ingress protection
CMBSP07-10/*/*/* CMBSP07-16/*/*/* Rated voltage (V): Max. 250VAC, Max. 500Hz or 36VDC	Ex db eb IIC T6 Gb	-45°C to + 50°C	2.5 mm ²	IP66
	Ex tb IIIC T80°C Db	-45°C to + 60°C	4.0 mm ²	
	Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 65°C	2.5 mm ²	
			4.0 mm ²	
CMBSP07-20/*/*/* Rated voltage (V): Max. 250VAC, Max. 500Hz or 36VDC	Ex db eb IIC T6 Gb	-45°C to + 50°C	4.0 mm ²	
	Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 53°C	2.5 mm ²	
		-45°C to + 60°C	4.0 mm ²	

Specific Conditions of Use:

1. Rated ambient temperature range:

Model	Ex marking	Ta	Wire diameter
CMBSP07-10/*/* CMBSP07-16/*/* Rated voltage (V): Max. 250VAC, Max. 500Hz or 36VDC	Ex db eb IIC T6 Gb	-45°C to + 50°C	2.5 mm ²
	Ex tb IIIC T80°C Db	-45°C to + 60°C	4.0 mm ²
	Ex db eb IIC T5 Gb Ex tb IIIC T80°C Db	-45°C to + 65°C	2.5 mm ²
			4.0 mm ²
CMBSP07-20/*/*	Ex db eb IIC T6 Gb	-45°C to + 50°C	4.0 mm ²



Attachment to CoC

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Model	Ex marking	Ta	Wire diameter
Rated voltage (V): Max. 250VAC, Max. 500Hz or 36VDC	Ex tb IIIC T80°C Db		
	Ex db eb IIC T5 Gb	-45°C to + 53°C	2.5 mm ²
	Ex tb IIIC T80°C Db	-45°C to + 62°C	4.0 mm ²

2. The equipment shall not be installed in a location where the dust can accumulate, and shall not be installed in a location where the external conditions are conducive to the buildup of electrostatic charge on such surfaces. In addition, only should be cleaned with a damp cloth.

3. Repairs of the flameproof joints shall not be allowed.

4. As the electrical parameter depended on the build-in electrical component, the operating parameters described in the instruction shall be followed.

5. The 85°C high temperature-resistant cable shall be selected.

6. Separated certified cable glands or blanking elements, type of d and t, with minimum Group IIC and IIIC, EPL Gb and Db, minimum IP66, service temperature -45°C to +80°C, shall be used during the operation.

7. Observe the warning

“WARNING - DO NOT OPEN WHEN ENERGIZED!”,

“WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT!” (only for Ex t)

“WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS”

8. Each CMBSP07 series plug shall only be used with an CMBSP07 series sock covered by this certificate.

9. Metal cable glands or blanking element shall be incorporated with earthing connection when installation if applicable, and the installation layout shall ensure that external metallic labels are not expected to be approached by earthed objects.

10. When the product is used as panel mounting, the local temperature around the socket shall not exceed corresponding maximum Ta.