

**LIST OF THE PRODUCT TYPES TESTED
"TESTING LABORATORY FACILITIES EXPLOSION"**

| No | Name of the product tested | Key indicator | Harmonised standards (test methods) |
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| 1 | 2 | 3 | 4 |
| 1 | Group I, electrical equipment of category M1 and category M2 as follows: | | |
| | 1.1 Type of protection "d": rotating electrical machines; switchgears; plugs and sockets; luminaries; portable handlights; caplights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | Explosion resistance; non-transmission of explosion; mechanical strenght; metric measurements temperature measurements IP code electrical measurements electrostatic safety | EN 60079-1 EN 60079-0 EN 60529 |
| | 1.2 Type of protection "e": rotating electrical machines; switchgears; plugs and sockets; luminaries; portable handlights; caplights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | Electrical measurements; metric measurements; determination of parameters of electrical insulating materials; mechanical strenght; IP code; temperature measurements; electrostatic safety | EN 60079-7 EN 60079-0 EN 60529 |
| | 1.3 Type of protection "i": protective, controlling and regulating devices (article 2, paragraph 1, clause 1); protective blocks (barriers) for supplying devices; sensors for physical quantities; luminaries; batteries; controlling, regulating and communicating systems; gas detectors | intrinsic safety of circuits temperature measurements metric measurements mechanical strenght parameters of electrical insulating materials IP code electrostatic safety | EN 60079-11 EN 60079-0 EN 61241-11 EN 60529 |
| | 1.4 Type of protection "m": switchgears; plugs and sockets; luminaries; portable handlights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | electrical measurements metric measurements determination of parameters of electrical insulating materials; mechanical strenght IP code temperature measurements electrostatic safety | EN 60079-0 EN 60079-15 EN 60529+A1 |
| | 1.5 Type of protection "o": switchgears | electrical measurements metric measurements determination of parameters of electrical insulating materials and the filling fluid mechanical strenght IP code temperature measurements | EN 60079-0 EN 60079-6 EN 60529+A1 |
| 2 | Component As follows: empty boxes; switchgears; plugs and sockets; indicators; measuring instruments; battery elements; sensors for physical quantities; electrical installation equipment | Explosion resistance; non-transmission of explosion; mechanical strenght; metric measurements temperature measurements IP code electrical measurements electrostatic safety | EN 60079-1 EN 60079-7 EN 60079-0 EN 60079-31 EN 60079-18 EN 60079-11 EN 60529+A1 |
| 3 | Group I, non-electrical; Categories M1 and Category M2 Types of protection "h" ("k", "b", "c"), "d", "fr". | Explosion resistance; non-transmission of explosion; mechanical strenght; | EN ISO 80079-36 EN 13463-2 EN 13463-3 EN ISO 80079-37 |

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| | | metric measurements temperature measurements IP code electrostatic safety | EN 14986 |
| 4 | Group II, gas, electrical. Categories 1, 2 and 3 Group II, dust, electrical Categories 1, 2 and 3 As follows: | | |
| | 4.1 Type of protection "d": rotating electrical machines; switchgears; plugs and sockets; luminaries; portable handlights; caplights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | Explosion resistance; non-transmission of explosion; mechanical strenght; metric measurements temperature measurements IP code electrical measurements electrostatic safety | EN 60079-1 EN 60079-0 EN 60529+A1 |
| | 4.2 Type of protection "e": rotating electrical machines; switchgears; plugs and sockets; luminaries; portable handlights; caplights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | Electrical measurements; metric measurements; determination of parameters of electrical insulating materials; mechanical strength; IP code; temperature measurements; electrostatic safety | EN 60079-7 EN 60079-0 EN 60529 EN 60079-31 |
| | 4.3 Type of protection "i": protective, controlling and regulating devices (article 2, paragraph 1, clause 1); protective blocks (barriers) for supplying devices; sensors for physical quantities; luminaries; batteries; controlling, regulating and communicating systems; gas detectors | intrinsic safety of circuits temperature measurements metric measurements mechanical strength parameters of electrical insulating materials IP code electrostatic safety | EN 60079-11 EN 60079-0 EN 60529+A1 |
| | 4.4 Type of protection "n": switchgears; plugs and sockets; luminaries; portable handlights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | electrical measurements metric measurements determination of parameters of electrical insulating materials; mechanical strenght IP code temperature measurements electrostatic safety | EN 60079-0 EN 60079-15 EN 60529+A1 |
| | 4.5 Type of protection "n": switchgears; plugs and sockets; luminaries; portable handlights; measurement instruments; batteries; sensors for physical quantities; electric wiring equipment; gas detectors | electrical measurements metric measurements determination of parameters of electrical insulating materials; mechanical strenght IP code temperature measurements electrostatic safety | EN 60079-0 EN 60079-18 EN 60529+A1 |
| | 4.6 Type of protection "o": switchgears | electrical measurements metric measurements determination of parameters of electrical insulating materials and the filling fluid mechanical strenght IP code temperature measurements | EN 60079-0 EN 60079-6 EN 60529+A1 |
| | 4.7 Type of protection "q": switchgears; batteries; | electrical measurements metric measurements determination of parameters of electrical insulating materials and and powder filling mechanical strenght | EN 60079-0 EN 60079-5 EN 60529+A1 |

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| | | IP code temperature measurements | |
| | Group II, gas, non-electrical; Categories 1, 2 and 3 Group II, dust, non-electrical; Categories 1, 2 and 3 Types of protection "h" ("k", "b", "c"), "d", "fr". | Explosion resistance; non-transmission of explosion; mechanical strength; metric measurements temperature measurements IP code electrostatic safety mechanical sparks (rapid alternating impact mode, constant friction; impact tests) | EN ISO 80079-36 EN 13463-2 EN 13463-3 EN ISO 80079-37 EN 14986 |