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Explosion proof standards pdf

27.12.2017 ATEX - the new European standard explosion protected equipment Standard ATEX (Atmospheres Explosibles) explosive mixtures of gases were introduced 01.08.2003 in accordance with the requirements of the European Union 94/9/EC, which replaced the old CENELEC and used in Europe. Applies to electrical and mechanical equipment, as well as protective equipment for use in hazardous areas like underground and on the surface. The ATEX standard has more stricter requirements: -limit the capacitive circuit parameters; -the use of other protection classes; -new requirements for the electrostatics; -use protective leather case; Example of marking according to ATEX: II 2 G EEx ib IIB T4 Ex - marking of explosion-proof equipment Equipment group: I - mining II - (not mine) khimindustriya, etc. 0 - with the frequent appearance of explosive gases, vapors, and mixtures; 1 - similar to 0, but the appearance of explosive gases, mixtures of vapors appears from time to time (for example, accident); 2 - similar to 1, but in rare cases the occurrence of similar situations; G for gas, D for combustible dust, mist, fibres; European marking of explosion-proof equipment The scope of the equipment Marking of explosion protection equipment 1 2 3 4 5 6 7 8 - II 1 G EEx ia IIB T3 1. The equipment has certificates from testing laboratories of the EU; 2. Applications: 1 - underground application, II - ground application; 3. Category zones: 0 - permanent presence of explosive substances (more than 1000 hours per year); 4. Surrounding atmosphere: G - gas, D - dust; 5. E - according to the European standards (CENELEC); Ex - pravozashitnoe equipment; 6. Classification types of protection: d - flameproof enclosure; e - increased protection; about oil filling; p - filling or purging shell under Risb; q - quartz filling; m - filling compound; i - intrinsically safe circuit: a guarantee that an emergency will not arise as a result of a spark (short circuit) or open when the power supply circuit, or by heating the wires; ia - a guarantee that a dangerous situation will not occur in normal operation, the interference noise on the line and when any of combinations of two faults specified in "i"; ib - a guarantee that a dangerous situation will not occur in normal operation, the interference noise on the line and when one of the malfunctions; Also might be an additional security, after the main 7. Applications: 1 - underground application, II - aerial application; When using equipment in the overhead areas for types of protection "d" and "i" are introduced subgroups IIA, IIB and IIC (according to the value of BEP or MTV) 8. Ignition temperature: T1 > 450°C; T2 = 300-350°C; T3 = 200-300°C; T4= 135-200°C; T5= 100-135°C; T6 = 85-100°C; The presence of brackets in the marking indicates that the equipment associated with, for example, [Ex ia] IIC - related equipment in a hazardous area. Classification of hazardous areas Class hazardous area selected by qualified staff - specialists of operating organizations together with technologists. Depending on the class, the selection of the electrical equipment. Normative documents of the Russian Federation there are the following classes of explosive zones : 1) Zone class b-1 zone located in areas where the amount of emitted hazardous gases and vapors in quantities that may form with air an explosive mixture ; 2) classes In Zone-1A zone that are located in areas where any faults, violations and accidents formed an explosive mixture of gases and vapors; 3) Zone class b-1B is different from zone 1A to the fact that explosive gases have high lower flammable limit

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