

Our Bumpers GSBPSATEXxx and Mats GSTSPATEX meets the criteria of “simple apparatus” and can be used in Hazardous areas when installed in “intrinsically safe” systems

Based on types of provided Associated Apparatus provided, these systems can have the characteristics indicated below, in compliance with the Standards EN 60079-0, 60079-11 and 60079-25 standards, and with the essential requirements of the European Directive 2014/34/EU (ATEX)

II 2GD Ex ia IIC T6 Gb / Ex ia IIIC T85°C Db

Below is a short key / description of the code and peculiarities of the system where our product is installed

Type of use

II = Group of devices / systems for use in surface industries (other than mines).

2 = ATEX category corresponding to a "high" level of protection

Hazardous Areas (Zones) of possible use

Zone 1 - 21 areas with probable presence of an explosive atmosphere during the normal operation of the plant / process

Zone 2 - 22 areas with probable presence of an explosive atmosphere ONLY in case of the plant / process, and not for short period

Suitable for use in presence of flammable / combustible substances

GD **G** = Gas / Flammable Vapours and **D** = Combustible Dust

Ex: Product protected against the ignition of potentially explosive atmosphere

Level of Intrinsically Safe protection

ia: The electric circuit guarantees safety, when powered within the defined limits of voltage, current and power, in normal operating conditions, in presence of a SINGLE FAULT and in presence of TWO contemporaneous and independent FAULTS

Substances that may be present where the product is used / positioned

Flammable Gas or Vapours Groups **IIA, IIB** and/or **IIC**

Combustible Dust Groups **IIIA, IIIB** and/or **IIIC**

Temperature classification / Max surface temperature

T6 / 85°C

Protection level of the device (EPL) / Areas of possible usage

Gb = High protection level (for GAS and/or VAPOUR) – For use in Zone 1 (and 2)

Db = High protection level (for DUST) – For use in Zone 21 (and 22)

The product shall be installed in an “intrinsically safe” circuit / system, interfaced with a suitable “Associated Apparatus” (safety barrier) for managing electrical contacts (such as our product type D5030S - D5030D) positioned in “safe area”, or inside a suitably certified “Ex d flameproof” enclosure.

