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Technokontrol

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Technokontrol is a [Spanish](#) corporation created in 2011. In 2013 the Spanish Patent Office ([Oficina Española de Patentes y Marcas](#)) recognized Technokontrol as the number one technological internal patent creator in Spain.^[1]

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Technokontrol	
Where your Security is our Priority	
Industry	Security
Founded	2011
Headquarters	Spain

Activity [edit]

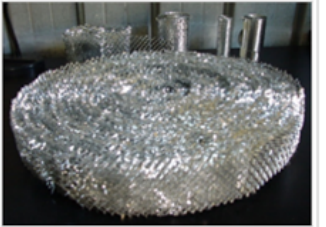


Anti-explosive alloy in spheric format

Technokontrol is a Spanish technological corporation, created with military based technologies which were and are mainly used for the protection of strategic infrastructures and installations.. These technologies are applied for the protection against [explosions](#), [fires](#), [contamination](#), [Electromagnetic Pulse \(EMP\)](#), [environmental](#) protection including the capturing of atmospheric contaminating particle systems and also designing and installing security technologies. The use of its security technologies is for the prevention of personal, physical and financial losses. Likewise, it is involved in [Research & Development](#) (R&D), case studies, international technological transferring, laboratory testing in environmental , anti-EMPS, energy/efficiency, R&D programs as those used in the electromagnetic power generating plants known as [RF5000](#). The use of [passive safety](#) and [active safety](#) technologies are mainly used and applied in the strategic infrastructure protection programs, [petrochemical](#), [transport](#) and [construction](#) industries.

Standards [edit]

The directives used for these safety technologies including QSSHE, HSE and SSHE levels, are based on the regulations set out by the National Fire Codes,^[2] U.S. Chemical Safety Board,^[3] National Transportation Safety Board^[4] for USA and South American compliance standards. All safety, security , technical directives and standards applied outside of the USA are based on the European Union standards and applied for the rest of the world, especially for the prevention of accidents, [HSE](#) (Health and Safety Executive), [QSSHE](#) (Quality, Health, Security and Environment), [SSHE](#) (Safety, Security, Health and Environment). It recommends the use and full application with all active global safety regulations, future safety development systems, continuous R&D and full implementation of all existing safety technologies under personal , corporate, industrial, military, government regulations including SSHE, QHSE and HSE standards. These safety standards being applied for all range risk scenarios from low-mid to high risk strategic and non strategic installations, like refineries, petrol stations, pipelines, fuel tank farms, gas cylinders storage-refilling facilities, buildings, shipping, fluvial, road, freight fuel tankers-logistics. Most of these locations being ones classified as mid-high risk industrial-civilian targets, thus being most of them classified by law enforcement as possible terrorist targets, and thus must be protected against possible attacks but not forgetting the indirect, non human related risk factors which may be introduced via climatic, natural disasters, chain reaction incidents to operational accidents, malpractice, etc.



Anti-explosive alloys in mesh format for fuel tank storage installations

Panels-Fire Proofing/Thermal Radiation Protection [edit]



Anti-fire panels

[Panels](#), [building](#) and safety technology systems are comprised of [patented multi-alloy](#) materials manufactured in a three dimensional ([3D](#) formation, mechanically produced into a [mesh](#), ball or textile format to form an unique, [non-combustible](#) material that is transformed into panels, tiles, textile wall coverings for their installation. Following with QSSHE, SSHE and HSE technical and operational standards, requirements, safety, environmental, national directives involving the use of passive security & safety technologies, these being able to increase protection standards and testing levels especially for fire proofing, thus protecting in operational ranges between 900 degrees [Celsius](#) to 1200°C over 480 minutes usage in extreme fires, thermal direct [radiation](#) conditions when in comparison with present average safety, testing global standards which are set at the 500°C-600°C range for maximum 240 minutes . New R&D having reached new testing ranges of over 2000°C using as base material low cost construction materials fully protected internally with the specialist alloys for their easy usage and application. If these technologies had been applied in the [World Trade Center/September 11 attacks](#) they would have possibly saved the building structural integrity due to the overall average temperature during the attacks not surpassing the 800°C-1000°C.

Electromagnetic Pulse Protection [edit]

Anti-EMPS technologies must begin being incorporated and transformed into multiple safety & security products which will allow all types and levels of civilian protection including maximum security & safety levels of protection for the safety & security of societies, but also including governments, corporations, industries, strategic, national security departments, private corporations. [Electromagnetic Pulse](#) attacks, which could appear in many forms of attack modes, from a ground attack by enemy, foreign military operations,^[5] terrorists, to solar-natural-nature related incidents as a [geomagnetic storm](#), and even protecting ourselves against common and/or sophisticated criminals trying to simply steel from financial institutions, databanks, and never forgetting terrorists trying to shut down, destroy all levels of society thus being able, for an example, to inactivate the national power grid, power stations or open dams gates to flood an area, regions, nation or even to bring down aircraft via aerial EMPS attack weapons which are already in the top 5 military global operators arsenals. Political and economic worries with regards of these types of global destruction technologies having been made public during many years, however, the increase of the possible levels of technology involved making this a number one global threat as stated by the former CIA Director James Woolsey.^[6] The USA has introduced two vital pieces of legislation that address the threat posed by EMP. The [SHIELD Act](#) HR 2417, and the [Critical Infrastructure Protection Act](#) (CIPA), HR 3410. These bills would take a number of important steps, including increasing awareness about the threat, helping states begin to secure their respective infrastructures, bridging the gap between industry and government to create standards and processes necessary to harden our grid against the threat. Anti-EMPS technology products are effective against EMPS pulses emitted from EMPS bombs, [improvised explosive devices](#) (I.E.D.), [solar radiation](#), geomagnetic storms. EMPS I.E.D can be delivered as a weapon in different sizes and formats, thus not needing the enemy, attacker to have an extreme technological advanced or unique delivery systems or technology as [stealth bombers](#) or long range [missile launchers](#), but being able to be carried and delivered even in small, portable formats as in a brief case or even delivered in person without even knowing of its devastating effects. In a more concentrated-direct civilian use, these Anti-EMPS can also be used to protect many people whom are becoming contaminated, who has [electromagnetic hypersensitivity](#) or is allergic to electronic wave bands/lengths thus needing to protect their homes and working spaces from electric, electronic and electromagnetic wave bands, pulses, emissions, etc.

Gas Cylinders [edit]

The use of these safety technologies allowing in creating unique protected gas [cylinders](#) which are at present the only anti-explosion gas cylinders in the world. The use of gas cylinders in daily home usage, transports, autogas, industrial, public vehicles, powered by [gas](#), [propane](#), [hydrogen](#) gas tanks being extremely globally extended and even more with the incorporation of more environmentally friendly fuels as [natural gas](#), compressed air (CNC), butane, [LPG](#), [LNG](#) but all requiring a cylinder storage unit. The numbers of homes, transport, industrial vehicles, caravans, vessels, BBQs, campers, petrol stations, public buildings, leisure & recreation facilities, which use gas cylinders as fuel tanks are globally recognized to be over the two billion. In the [United States](#) there are an estimated 300-500 million gas cylinders in different forms or capacities.^[7]



Cylinder with anti-explosive mesh

Cylinders used as Terrorist, Criminal I.E.D. Explosives [edit]

[Terrorist](#), criminal [gangs](#) are using more and more frequently gas cylinders as I.E.D. and even in some global war torn regions using gas cylinders as mortar grenades installed and launched from home made cannons, launch pads, mortars, etc. These terrorist technologies and operational [know-how](#) being available to download freely via the [internet](#) thus allowing any underground "lone wolf" terrorist, criminal group or terrorist groups to use these daily common items as simple, cost effective , accessible, means of creating [mass destruction](#) terror weapons. The last failed terrorist attacks in the USA and especially in [New York City](#) have seen that the use of petrol and gas cylinders and large amounts of [shrapnel](#) which increase the power of destruction of these homemade I.E.D. Most worrying is that the financial production cost being extremely low and not being able in being arrested for having several gas cylinders thus the overall risk for their production being minimum. Most terrorist attacks, as the [2007 London car bombs](#), have included gas cylinders as a principle part of the designed I.E.D. Terrorists have since post [WWII](#) designed and used gas cylinders as a means to increase destruction and the Know How^[8] and technology being passed down via different terrorist groups as [ETA](#) (Spain), [IRA](#) (Eire), [FARC](#) (Colombia).^[9]

References [edit]

- ↑ Oficina Española de Patentes y Marcas[1]
- ↑ National Fire Protection Association[2]
- ↑ U.S. Chemical Safety Board[3]
- ↑ National Transportation Safety Board[4]
- ↑ Iran's "Dry Run" For A Nuclear EMP Attack On East Coast[5]
- ↑ EMP attack: It's not just an idle threat[6]
- ↑ NFPA Statistics[7]
- ↑ How terrorists acquire technology and training: lessons from the IRA[8]
- ↑ Technology Acquisition by Terrorist Groups - RAND Corporation[9]

External Links [edit]

- Royal Aeronautical Society member
- Article Power Plant Orion/Omega TechnoKontrol
- National Fire Protection Association website
- U.S. Chemical Safety Board website
- National Transportation Safety Board website
- Official site

Companies Security Research and Development