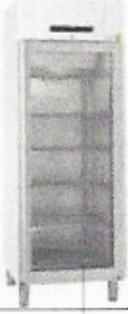


BORDERLINE LIST – ATEX PRODUCTS

Last update: November 2022

Note: the list is not complete, it only clarifies some common inquires and provide examples of products within or outside the scope of the ATEX Directive 2014/34/EU. The list does not replace the vital risk assessment of each product and in addition, ignition sources and explosion hazards related to the use of all the products shall also always be considered.

Products	Scope of 2014/34/EU (El. = Electrical)	Examples of products	Comments
Equipment			
Automatic lubrication systems	Yes (El.)		Yes, if it is a battery-supplied system and has one or more electrical battery cells above the values specified in "Simple apparatus" clause of EN 60079-11 and if the other criteria for simple apparatus are not met.
Clockworks	-		See § 38 in the ATEX Guidelines ("Simple" products).
Computers	Yes (El.)		
Simple earthing clamps with and without cord	No		"Simple earth clamps" are clamps with a single earth connection. The clamp shall provide evidence that it is actually making contact. No own source of ignition, and for additional considerations, see note 2.
Complex earthing clamps with and without cord	Yes (El.)		The clamp shall provide evidence that it is actually making contact. Potential ignition sources cannot be excluded according to the ignition hazard assessment.
Electrical motors	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin (e.g. windings, connections) and mechanical origin (e.g. bearings).
Electrical pump with integrated electrical motor (e.g. canned or split tube motor pump, petrol pump/dispensers for petrol filling)	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin (e.g. motor circuit) and mechanical origin (e.g. pump impeller). Static discharge may occur while pumping/filling in progress.
Electrical fan with integrated electrical motor (e.g. electrical axial fan)	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin (e.g. motor circuit) and mechanical origin (e.g. fan blades).
Non-electrical fan with integrated air motor (e.g. non-electrical axial fan)	Yes (Non-el.)		Non-electrical equipment with potential ignition sources like frictional heat and sparks of mechanical origin (e.g. bearings, fan blades).
Hand operated valves	No		See section § 38 in the ATEX Guidelines ("Simple" products).
Heating cables	Yes (El.)		Heating cables transform electricity into heat while cables "only" transports electricity. Heating cables may also be components, e.g. heating cables for controlled design applications as part of trace heating systems.
Mechanical brakes	Yes (Non-el.)		Non-electrical equipment with potential ignition sources like frictional heat of mechanical origin.
Mechanical gears	Yes (Non-el.)		Non-electrical equipment with potential ignition sources like frictional heat and sparks of mechanical origin.
Phones and similar equipment e.g. walkie-talkies, head phones etc.	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin.

Products	Scope of 2014/34/EU (El. = Electrical)	Examples of products	Comments
Refrigerators and storage cabinets for volatile substances	No (but see Note 1) (El.)		See section § 256 in the ATEX Guidelines.
Plugs and socket outlets	Yes (El.)		Electrical equipment with potential ignition sources like sparks of electrical origin (e.g. when connected or disconnected). Note that all countries have special requirements on plugs and socket outlets for domestic use.
Rotary valve	Yes (Non-el.)		Only intended to be used as dosing equipment and not to stop the propagation of an explosion as explosion isolation system. Has to be explosion protected with respects to its ignition sources.
Switches for fixed electrical installations	Yes (El.)		Electrical equipment with potential ignition sources like sparks of electrical origin (e.g. when switched on or off).
Torch	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin (e.g. sparks from a switch or heat in a bulb or battery).
Extension cord with plug	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin. Only for temporary use.
Cable reel	Yes (El.)		Electrical equipment with potential ignition sources like heat and sparks of electrical origin. Only for temporary use.
Protective Systems			
Fire extinguisher	No		Intended to be used after an explosion.
Flame arrestors	Yes		Intended to be used to stop the propagation of an explosion. Flame arrestors are used for example on vapour recovery lines on petrol stations to prevent the propagation of an explosion to the underground storage tank or the vehicle.

Products	Scope of 2014/34/EU (El. = Electrical)	Examples of products	Comments
PT 100 sensor	No / Yes		No, when used in an intrinsic safe system together with e.g. a barrier. In all other situations it is to be decided on a case-by-case assessment.
Rotary valve	Yes		Intended to be used not only as dosing equipment but also as explosion isolation system to stop the propagation of an explosion. Has to be explosion protected with respects to its ignition sources and shall fulfil the requirements for protective systems with respect to propagation of an explosion.
Vent panels (for explosion pressure relief)	Yes		Intended to be used to limit the effects of an explosion.
Explosion suppression systems including initiators devices i.e. suppression systems (triggering)	Yes (El.)		Within 2014/34/EU, Article 1.1., with respect to functional and reliability requirements according to the ESHRs 1.5. and 1.6. Initiators can be certified separately as electrical equipment.
Ex Components			
Empty enclosures	Yes (El.)		Intended to be used for electrical equipment with potential ignition sources.
Sight glasses	No		No own source of ignition. However, sight glasses may form part of the enclosure of Ex equipment and be required to fulfil relevant requirements such as for a window in Ex 'd' equipment or impact resistance in Ex 'o' and Ex 'k' equipment.
Spark arrestor	Yes		Intended to prevent an explosion, not to limit it. It is an ATEX component if intended to be built into ATEX equipment or protective systems.
Magnetic catches for doors etc.	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system.
Safety, Controlling or Regulating devices			
Devices controlling the regular safety limits of an industrial process handling flammables, like pressure, level and temperature transmitters	No		Shall be protected as potential ignition sources themselves if placed inside hazards areas, but safety devices with respect to risks other than ignition hazards + monitoring devices providing only an alarm signal, but without direct control function, are outside scope of the directive (with respect to reliability and functional requirements according to the ESHR, clauses 1.5. and 1.6.).
Overload or temperature protective devices, inhibiting ignition sources from becoming active (e.g. current-dependent device for Exe motor)	Yes (El.)		Within Directive 2014/34/EU, Article 1.1., with respect to functional and reliability requirements according to the ESHR, clauses 1.5. and 1.6.
Other products			
Cables	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system.
Cable ladder and chain/handler systems	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system; no own source of ignition. For additional considerations, see Note 2.
Power transmission belt or conveyor belts	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system. No own source of ignition, and for additional considerations, see Note 2.

Products	Scope of 2014/34/EU (El. = Electrical)	Examples of products	Comments
			Hazards during operation, e.g. potential electrostatic risks overheating and operating temperature limits, flame retardant properties (reference standard EN 80079-37) are to be considered by the manufacturer of the equipment, where the belts are incorporated.
Conduits/pipes /hoses: e.g. Fume extraction arms and conduits for electrical installations (except for conduits intended to be used between the flameproof enclosures and the conduit sealing devices), Metal-hose assembly or non-conductive hose assemblies with or without metal fittings	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system
Cable lugs/shoes with and without cord	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system.
Electro Static Discharge (ESD) - protections: e.g. wristlets, shoes, standing mats, antistatic bags	No		No autonomous function; not essential to safe functioning of ATEX equipment or protective system.
Doors	No		No. None automatic doors are considered as a part of the fixed walls and are not operated in the presence of explosive atmospheres. For additional considerations, see Note 2.
Filter-Element, non-conductive for use in flammable liquids and gases	No		No autonomous function; not essential to safe functioning of ATEX equipment. No own source of ignition. For additional considerations, see Note 2. Hazards during operation, e.g. potential electrostatic risks are to be considered by the manufacturer of the equipment, where the filters are incorporated.
Filter housing (non-conductive and conductive) for use with flammable liquids and gases and/or in hazardous area	No		No autonomous function; not essential to safe functioning of ATEX equipment. No own source of ignition. Hazards during operation, e.g. possible electrostatic risks, must be considered by the manufacturer of the equipment, which is under scope of 2014/34/EU and where the filter housing is installed. For additional considerations, see Note 2.
Ladders, irrespective of the material	No		No own source of ignition.
Paint	No		No own source of ignition.
Tank	No		No own source of ignition.
Tools: e.g. hammers, tongs	No		No own source of ignition.
Products, which are not intended to be used in an explosive atmosphere but explosive atmosphere can occur inside of the product.			
Spiral jet mill	No		If there is a dynamic shifting device or fluidized bed opposed jet mill and moving parts inside. Equipment inside of the mill (e. c. mechanical parts as part of the complete apparatus) with

Products	Scope of 2014/34/EU (El. = Electrical)	Examples of products	Comments
			<p>the potential to create an ignition risk, must comply with the Directive 2014/34/EU (see section § 34 on place of intended use).</p> <p>Electrostatic hazards caused by material during operation has to be covered by Directive 2006/42/EG (machine directive) or the end-user according to directive 1999/92/EG.</p>

Note 1: Additional information can be obtained not only in the ATEX Guidelines to Directive 2014/34/EU, but also in the "[Non-binding guide to good practice for implementing the European Parliament and Council Directive 1999/92/EC](#)".

Note 2: Equipment, protective systems, Ex components, safety, controlling, regulating devices and/or other products indicated as not falling within the scope of the ATEX Directive 2014/34/EU, ignition sources and explosion hazards related to the use shall be considered. Friction impacts and abrasion processes involving rust and light metals (e.g. aluminium and magnesium) and their alloys may initiate an aluminothermic (thermite) reaction, which can give rise to particularly incendive sparking.