

Industrial Safety Engineering



What Explosiv is, and why it was founded

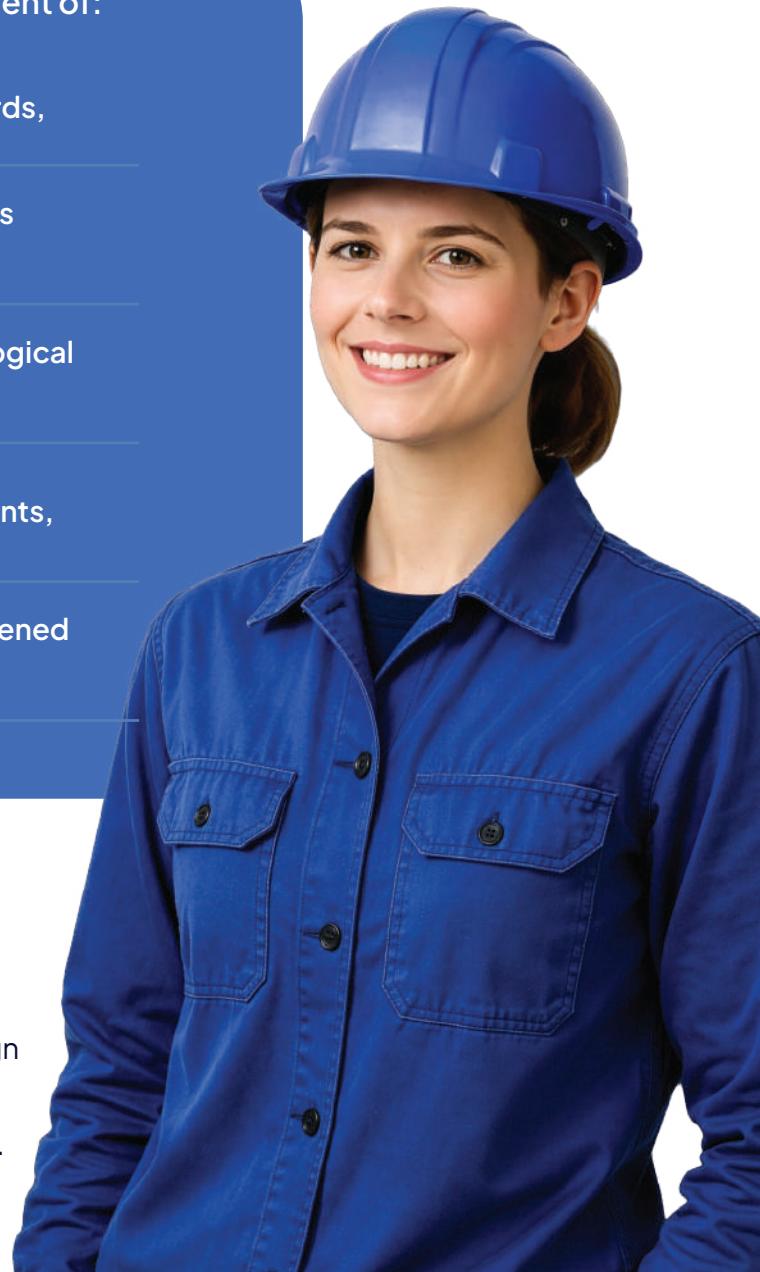
Explosiv is a company specialized in a comprehensive approach to the technical safety of industrial processes. We work in the fields of hazardous substance storage, fire protection and explosion protection, combining technical knowledge, audit experience and hands-on implementation practice.

Explosiv was founded as a response to a real, repeatedly observed gap between formal requirements and the everyday reality of how industrial plants operate. In our daily work we regularly encounter situations where regulations, standards and guidelines don't translate directly into the technical, organizational and procedural conditions of existing facilities.

Today, industrial plants operate in an environment of:

- ✓ a growing number of regulations and standards,
- ✓ pressure from regulatory authorities, auditors and insurers,
- ✓ complex, often historically-shaped technological processes,
- ✓ technical, spatial and organizational constraints,
- ✓ the need to make investment decisions burdened with real risk,

Under these conditions, safety stops being a one-dimensional issue. It becomes a chain of interconnected decisions — spanning risk analysis, the interpretation of formal requirements, the design of technical solutions, their implementation, and the preparation and upkeep of documentation.



At the same time, what's very often missing is **a single accountable partner** able to take a holistic, consistent view of this process. Instead, companies are forced to work with many separate providers — separate consulting, separate audits, separate design, separate product suppliers, separate documentation. This model leads to fragmented decisions, diluted accountability, and solutions that formally "exist" but don't actually work in practice. Explosiv was created to fill that gap.

We act as a **holistic safety partner** that brings order to the entire process — from hazard identification and risk analysis, through decision support and technical solutions, to implementation and documentation.

The product is never the starting point. **It is the consequence of understanding the process, the risk, and the plant's real operating conditions.** That's why, in Explosiv's approach, safety isn't a collection of individual technical measures, but a coherent, well-thought-out system that can be maintained over time and defended both technically and formally.





Technical Expertise and Engineering Consulting

Technical knowledge is the foundation of safety — yet knowledge alone doesn't make decisions.

Decisions are made by people — often under time pressure, with incomplete data, amid shifting formal requirements and the real risk of technical, organizational and personal consequences.

In practice, at industrial plants this means reconciling fire-protection regulations, explosion-protection principles and technical standards with real production processes, infrastructure and work organization. In areas such as fire protection and ATEX, a wrong decision is rarely a purely formal matter — its consequences affect people, production continuity and the accountability of decision-makers.

Explosiv's consulting focuses on bringing order to the complex decision-making environment around safety. We translate formal requirements, fire regulations, explosion-protection principles and sound engineering practice into decision-ready language. We frame risk in a way that enables informed choices, pointing out the consequences of different courses of action and their impact on the safety of people and processes.

Explosiv's expertise combines engineering and audit experience with work built on integrated management systems compliant with ISO 9001, ISO 14001 and ISO 45001. As a result, fire and explosion safety is never treated as a separate topic, but as an integral part of the organization's management system.

This approach lets us:

- ✓ assess fire and explosion risk in the context of the entire technological process,
- ✓ distinguish absolute requirements from good practice and overinterpretation,
- ✓ design fire-protection and ATEX solutions that are technically sound and operationally workable,
- ✓ reduce the risk of decisions made purely "just in case."

We operate in the areas of:

- ✓ storage of hazardous substances,
- ✓ fire protection of facilities and installations,
- ✓ explosion hazard zones (ATEX),
- ✓ process safety.

Our goal isn't to hand over another set of recommendations disconnected from the plant's reality, but to build risk awareness that lets clients make decisions that are responsible, justified and defensible. This means the solutions we implement don't just meet formal requirements — they genuinely raise the level of safety in day-to-day work.



Audits and Consulting — Understanding Risk, Not Policing It

Audits carried out by Explosiv are not a control mechanism or a tool for formally logging non-conformities. We treat them as an engineering tool aimed at genuinely understanding the real level of risk and preparing the client to make rational, responsible safety decisions.

In industrial practice, an audit is very often associated with pressure, judgment and the risk of formal consequences. That mindset leads to defensive behaviour, hiding problems, or implementing superficial fixes. Explosiv's audits are conducted in a partnership-based, factual, evidence-driven way, built to earn trust and enable a genuine assessment of the situation.

The starting point of an audit is always the actual state of affairs — not just documentation records. We focus on how technological processes really work, how work is organized, what technical and organizational safeguards are in place, and where the real safety gaps lie.

The analysis covers, in particular:

- ✓ the flow of technological processes and their interdependencies,
- ✓ the properties of the substances and materials used,
- ✓ work organization and how installations and spaces are used,
- ✓ existing technical and procedural safeguards,
- ✓ areas exposed to fire and explosion risk, including ATEX zones.



In areas such as fire protection and explosion protection, what matters most is **distinguishing significant risks from formal non-conformities of marginal importance**. Not every deviation carries the same level of hazard, and not every finding calls for immediate, costly investment. One of the most important elements of an audit is therefore **setting priorities**.

The outcome of an Explosiv audit isn't just a report — it's a clear risk map that:

- ✓ highlights areas requiring urgent action,
- ✓ allows medium- and long-term actions to be planned,
- ✓ provides a basis for investment decisions,
- ✓ helps prepare for inspections by external authorities and insurance audits.

Audits and consulting also serve as **the starting point for further engineering work**. The findings feed directly into the design of technical solutions, the selection of protective measures, and the preparation of documentation, so that every element of the safety system remains consistent.

The goal of an Explosiv audit is to remove decision-making uncertainty from those responsible for safety. After the audit, the client should:

- ✓ understand the real level of risk,
- ✓ know the possible courses of action and their consequences,
- ✓ have a logical, defensible path for next steps,
- ✓ have grounds for making decisions without the pressure of improvisation.

Explosiv audits aren't about "ticking boxes."
They're about understanding risk and taking control of it.

Engineering Projects and Safety Products — a Polish Manufacturer, from Concept to Implementation

Explosiv delivers both engineering projects and safety products as a Polish manufacturer, treating them as elements of one coherent risk-management process. The choice between a custom-designed solution and an off-the-shelf product is never a sales decision — it follows from risk analysis, technical conditions and the plant's real needs.

Engineering Projects

Explosiv's engineering projects arise where off-the-shelf catalogue solutions are insufficient or ill-suited to the working conditions — especially in areas of elevated fire and explosion risk, where precisely matching solutions to the technological process, infrastructure and work organization is critical.

As a Polish manufacturer, we deliver, among others:

- ✓ containers for storing hazardous substances,
- ✓ containers and technical enclosures for explosion hazard zones,
- ✓ individual storage and process-separation systems,
- ✓ technical solutions that account for fire-protection and ATEX requirements,
- ✓ adaptation and modernization of existing installations and facilities.

Every engineering project:

- ✓ is preceded by risk analysis and audit findings,
- ✓ accounts for real spatial, technical and organizational constraints,
- ✓ is designed with later operation, servicing and maintenance in mind,
- ✓ forms a coherent part of the plant's overall safety system.



Safety Products

Explosiv's safety products are manufactured in Poland and serve either as a **complement to a design solution** or as a standalone protective measure, wherever risk analysis shows that this is sufficient, rational and technically justified.

As a Polish manufacturer, we select and supply, among others:

- ✓ safety cabinets and fire-resistant cabinets,
- ✓ spill containment trays and leak-protection systems,
- ✓ equipment for storing hazardous substances,
- ✓ process-safety infrastructure components,
- ✓ solutions dedicated to explosion hazard zones.

We don't offer our products as one-size-fits-all solutions. Every product is **deliberately matched to a specific hazard, process and working environment**.

One Accountability, One Process

Design, manufacturing, product selection, implementation and subsequent technical support are all carried out within **one coherent process**, for which Explosiv takes responsibility as both Polish manufacturer and technical partner.

Celem jest stworzenie rozwiązań:

- ✓ technically sound,
- ✓ genuinely feasible to implement
- ✓ effective over the long term
- ✓ defensible during inspections and audits

Explosiv's goal isn't to deliver just another piece of infrastructure, but to design, manufacture and support the implementation of a safety system that actually works — tailored to the specific plant and its risks.



Safe Laboratory

A laboratory is a space where repeatability, ergonomics and resistance to a demanding working environment all matter. We design and equip workstations to minimize exposure risk, limit the chance of spills, make it easier to keep things clean, and enable the safe storage of chemicals.

Workstation and Laboratory Enclosure Equipment

- ✓ Powder-coated steel enclosures and cabinets for laboratory and sanitary applications.
- ✓ Stainless-steel equipment: tables, cabinets, shelving, sinks and accessories for areas with elevated hygiene requirements.
- ✓ Specialty furniture: hot-dip galvanized steel finished with chemical-resistant paint, plus chemical-resistant worktops (ceramic, resin, composite).

Workstation Ventilation and Working with Fumes

- ✓ Selection of fume hoods and workstation shields for work with volatile substances (at the design stage, matched to process requirements).
- ✓ Workstation layouts designed so that workflow stays safe and cross-contamination between clean and dirty zones is minimized.

Safe Storage of Chemicals and Waste

- ✓ Hazardous-materials cabinets and safety cabinets, selected according to substance type and work organization (filtration options available).
- ✓ Spill containment trays and flooring solutions to limit the impact of leaks, plus systems for storing hazardous materials.
- ✓ Delivery models: supply only, supply with installation, or equipment design with supply and installation.
- ✓ Fire-resistant cabinets for the safe storage of substances, selected according to process risk and operational requirements.





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