

Wolf TR-40 Safety LED Torches

Article Number: 08010440

WOLF TR-40 Safety LED Torches



Usage Areas

- **Mining:** Underground coal and metal mines, the most hazardous galleries with firedamp risks (M1 compliance).
- **Oil & Gas:** Zone 0 areas with continuous explosive atmosphere risks, refineries, and platforms.
- **Fire & Rescue:** Hands-free illumination by clipping the right-angle head onto protective gear.
- **Industrial Maintenance:** Confined space inspections, power plants, and tank inspections.

Suitable for use in Zones 1& 2 Gas Group IIA, IIB, IIC ,T3-T4 temperature ranges.

High powered LED type source provides continuous illumination with full brightness for 7.5 hours, and wide-angle 1.4 watt illumination up to 32 hours.

Shielded unbreakable polycarbonate lens, impact resistant thermoplastic, electrostatic housing .

Operates with 4 pcs AA 1.5 volt alkali batteries.

Weight is appr. 350 grams.

EN 60529:1992 standard IP 67 water and dust protection.

EX II 1 G Ex ia IIC T4/T3 IP67 ATEX certificate.

WOLF TR-45 Safety LED Torches (Black)

Suitable for use in Zones 0, 1& 2 Gas Group IIA, IIB, IIC, T3-T4 temperature ranges.

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illumination up to 32 hours.

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Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards



CE Mark



Ex-Proof (ATEX)

TECHNICAL DETAILS

WOLF TR-40 Safety LED Torches (Yellow)

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What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series). However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.

