

Wolf® HT-400Z0 LED Headlamp

Article Number: 08021350

The Wolf HT-400Z0 is a **next-generation** lighting solution with the highest safety standards, specifically developed for professionals working in hazardous environments. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this model is a technologically optimized and high-efficiency product that replaces older, discontinued versions.

With its **Zone 0** compliance, it is safely used in areas where explosive gases and vapors are constantly present. Its compact design and hands-free operation ensure both safety and maximum comfort during industrial operations. The impact-resistant body and waterproof sealing are engineered for seamless performance in the toughest field conditions.



Usage Areas

- **Oil & Gas:** Refineries, storage terminals, and offshore platforms.
- **Chemical & Petrochemical:** Production and filling lines involving flammable liquids/vapors.
- **Industrial Plants:** Tank cleaning, confined space entries, and maintenance-repair works.
- **Energy Sector:** Technical service areas and operational zones with explosion risks.
- **IMPA Code:** 33 06 20 - HT-400Z0

Certification & Compliance:

- Suitable for use in Zones 0, 1, 2 (gas) and Zones 21, 22 (dust).
- Gas Group: IIA, IIB, IIC
- Temperature Class: T4
- Complies with EN IEC 60079-0 and EN 60079-11 standards.
- EX II 1G Ex ia IIC T4 Ga;
- II 2D Ex ib IIIB T125°C Db

Technical Specifications:

- **Light Source:** High-power LED

- **Light Source Outup (Lumens):** Up to 120 lm
- **Brightness Duration:** Up to 8.5 hours
- **Lighting Type:** Wide-angle fringe lighting
- **Lens:** Shatterproof polycarbonate
- **Body Material:** Robust, durable, chemical resistant thermoplastic materials
- **Power Source:** Operates on 3 x 1.5V AAA alkaline batteries
- **Weight:** Approximately 0.90 kg

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



Ex-Proof (ATEX)



IECEX



CE 0598



UKEX

TECHNICAL DETAILS

Product Reference		ATEX LED Headtorch
CODE	ATEX	II 1G2D
	GAS	Ex ia IIC T4 Ga IP67
	DUST	Ex ib IIIB T125°C Db
TYPE OF PROTECTION		ia/ib Intrinsic Safety
AREA OF CLASS (GAS)		Zones 0, 1 and 2 - Gas groups IIA, IIB, IIC

TEMP. CLASSIFICATION (GAS)		T4
AMBIENT TEMP		-20°C to +40°C
AREA OF CLASSIFICATION (DUST)		Zones 21 and 22 - Dust Groups IIIA, IIIB
MAX SURFACE TEMP. (DUST)		125°C
CERTIFICATE		Baseefa10ATEX0067 IECEx BAS 10.0023
ENCLOSURE		High Impact Thermoplastic, Chemical Resistant
LENS		Shatterproof Polycarbonate
BEAM TYPE		Broad Spot with Wide Angle Fringe Light
LIGHT SOURCE	TYPE	High Power LED
	OUTPUT	Up to 120 lm
	LIFE	25,000+ hours (fitted for life)
POWER SOURCE	PART NUMBER	3 x LT-401 (LR03 Cells)
	TYPE	LR03 primary cells, to IEC 60086, Alkaline AAA
	VOLTS	3 x 1.5v
LIGHT DURATION		Up to 8.5 hours
INGRESS PROTECTION		IP67
WEIGHT (INC. CELLS)		0.090kg

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.

