Wolf® HT-650 LED Headlamp

Article Number: 08010452

The Wolf HT-650 is a **next-generation** lighting solution with the highest safety standards, developed for both industrial facilities and underground mines. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model is the most technologically up-to-date version, optimized for the toughest field conditions.

The product holds the **I M1 (Mining)** certification for firedamp risks in mines, as well as approvals for hazardous gas and dust environments (Zone 0/21). Its powerful LED technology, providing up to 130 lumens, ensures maximum visual safety during hands-free operations in confined spaces and deep mine galleries.

Usage Areas

- **Mining:** Underground mines, firedamp risk areas, and tunneling works.
- **Oil & Gas:** Refineries, storage facilities, and offshore platforms.
- **Chemical & Petrochemical:** Production lines involving flammable gases and vapors.
- **Industrial Hazardous Areas:** Tank cleaning, maintenance-repair, and confined space entries.

Certification & Compliance:

- Suitable for use in Zones 0, 1 & 2 (gas) ,Zone 20,21,22 (dust)
- Gas Group: IIA, IIB, IIC
- Temperature Class: T4/T3 (battery dependant)
- Complies with EN IEC 60079-0, EN 60079-11 and EN 60079-28 standards.
- Ex IM1/II 1GD Ex ia op is Ma/IIC T4/T3 Ga
  Ex ia op is IIIB T155°C Da

Technical Specifications:

- **Light Source:** High-power LED
- **Light Source Lumens):** Up to 130 lm

- **Brightness/Battery Duration:** Up to 17 hours with wide-angle flood for optimum workspace illumination
- **Power Source:** Operates on 3 x 1.5V AA alkaline batteries
- **Weight:** Approximately 0.180 kg
- **Ingress Protection:** IP67

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 HT-650 Headtorch-Zone 0**
CODE	**INDUSTRIAL**	**I M1/II 1GD Ex ia op is I Ma/IIC T4/T3 Ga IP67 Ex ia op is IIIB T155°C Da**
	MINING	**I M1 Ex ia op is I Ma IP67**
TYPE OF PROTECTION		**“ia” intrinsic safety, ‘op is’ Optical Radiation**
AREA OF CLASS (GAS)		**Zones 0,1 and 2 - Gas groups IIA, IIB, IIC**
TEMP. CLASSIFICATION (GAS)		**T4/T3**
AREA OF CLASSIFICATION (DUST)		**Zones 20,21 and 22 Dust Groups IIIA, IIIB**

MAX SURFACE TEMP. (DUST)		155°C
CERTIFICATE		Baseefa 10ATEX0067X IECEx BAS 10.0023X
ENCLOSURE		High Impact Thermoplastic, Chemical Resistant
LENS		Shatterproof Polycarbonate
BEAM TYPE		Broad Spot with Wide Angle Flood Light
LIGHT SOURCE	**TYPE**	High Power LED
	OUTPUT	Up to 130 lm
	LIFE	25,000+ hours (fitted for life)
POWER SOURCE	**PART NUMBER**	3 x HT-210 (LR6 Cells)
	TYPE	LR6 primary cells, to IEC 60086, Alkaline AA
	VOLTS	3 x 1.5v
LIGHT DURATION		Up to 17 hours
INGRESS PROTECTION		IP67
WEIGHT (INC. CELLS)		0.180kg

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.