

Wolf® XT-90 Ex-Proof Rechargeable Handlamp



The Wolf XT-90 is a **next-generation** rechargeable handlamp designed for long-duration and high-performance lighting requirements in hazardous areas. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this model combines the renowned durability of the XT series with optimized battery life and superior LED technology.

The device is fully certified for industrial hazardous areas (Zone 1/21) and underground mines (**I M2 Mining**). Specifically developed for long shifts and wide-area inspections, the XT-90 ensures consistent light output through its advanced Li-ion battery. With its ergonomic design and IP67 waterproof rating, it is the most reliable partner in challenging environments, from oil refineries to deep mine galleries.

Usage Areas

- **Mining:** Underground mine operations, tunnel construction, and firedamp risk zones.
- **Oil & Gas:** Refineries, storage tank internal inspections, and offshore platforms.
- **Marine:** Engine rooms, cargo holds, and vessels carrying hazardous materials.
- **Industrial Maintenance:** Power plants, chemical facilities, and confined space operations.

Certification & Compliance:

- Suitable for use in Zones 1, 2 (gas) and Zones 21, 22 (dust)
- Gas Group: IIA, IIB, IIC
- Dust Group: IIIA and IIIB
- Temperature Class: T4
- Complies with EN IEC 60079-0 and EN 60079-11 standards.
- EX I M2/II 2GD Ex ib I Mb/IIC T4 Gb IP67

Ex ib IIIB T185°C Db (Temperature ambient -30°C to +40°C)

Technical Specifications:

- **Light Source:** High-power LED
- **Brightness Duration:** Up to 11.0 / 22.0 hrs

- **Lens:** Toughened glass
- **Body Material:** Impact resistant thermoplastic, electrostatic non-hazardous
- **Power Source:** Operates on Rechargeable battery, Lithium-Ion
- **Weight:** Approximately 1.2kg

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



LR Certificate

TECHNICAL DETAILS

PRODUCT REFERENCE		XT-50	XT-70	XT-9X*	XT-75
PRODUCT DESCRIPTION		Rechargeable Safety Handlamp			
CODE (ATEX & IECEX)	INDUSTRIAL	I M2/II 2GD Ex ib I Mb/IIC T4 Gb IP67 Ex ib IIIB T185°C Db (Temperature ambient -30°C to +40°C)		I M1/II 1G Ex ia I Ma/IIC T4 Ga IP67 II 2D Ex ib IIIB T185°C Db (Temperature ambient -30°C to + 40 °C)	
	MINING	I M2 Ex ib I Mb IP67		I M1 Ex ia I Ma IP67	
TYPE OF PROTECTION		"ib" intrinsic safety		"ia" intrinsic safety	

AREA OF CLASSIFICATION (GAS)	Zones 1 and 2 Gas Groups IIA, IIB & IIC			Zones 0, 1 and 2 Gas groups IIA, IIB & IIC	
TEMP.CLASSIFICATION (GAS)	T4				
AREA OF CLASSIFICATION (DUST)	Zones 21 and 22 Dust Groups IIIA and IIIB				
MAX.SURFACE TEMPERATURE (DUST)	185°C				
CERTIFICATE	ATEX Baseefa09 ATEX0326X IECEx BAS 09.0153X				
ENCLOSURE	Impact resistant thermoplastic, electrostatic non-hazardous				
LENS	Toughened glass				
BEAM TYPE	Spot	Spot/Flood	Spot/Flood/Signal	Spot/Flood	
LIGHT SOURCE	TYPE	High Power LED			
	QUANTITY	1 x White	2 x White	2 x White, 2 x Coloured	2 x White
	OUTPUT	430 lm (White)			
	LIFE	25,000+ hrs			
POWER SOURCE	TYPE	Rechargeable battery, Lithium-Ion			
	PART NO.	XT-202	XT-204	XT-206	XT-204
	LIFE	Up to 500 recharge cycles			
LIGHT DURATION	Up to 4.0 / 8.0hrs	Up to 7.5 / 15.0hrs	Up to 11.0 / 22.0hrs	Up to 7.5 / 15.0hrs	

INGRESS PROTECTION	Up to 7.5 / 15.0hrs			
WEIGHT	1.2Kg			
COMPATIBLE CHARGER	XT-200L 12-24Vdc / XT-200H 90V-254Vac			
RECHARGE TIME	2.0 hrs	3.5 hrs	4.5 hrs	3.5 hrs

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.

