Wolf® TR-60 Safety LED Torches (Right Angle)

Article Number: 08010205

The Wolf TR-60 is a professional LED flashlight featuring **Zone 0** and **Mining (Group I M1)** certifications, engineered to deliver peak lighting performance and ease of use in hazardous areas. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model stands out with its 90-degree right-angle body and powerful 200-lumen output.

Optimized for the most dangerous environments where explosive atmospheres are continuously present, the TR-60 provides a deep and sharp light beam through its advanced optical system. Its impact-resistant body, stainless steel clip, and extended runtime on 4 AA batteries make it indispensable for heavy industries, from mining to chemical processing plants.

Usage Areas

- **Mining:** Underground coal and metal mines, the most hazardous zones with firedamp risks (M1 compliance).
- **Oil & Gas:** Refineries, offshore platforms, and Zone 0 areas with continuous explosive gas risks.
- **Fire & Rescue:** Hands-free operation by clipping the right-angle head onto protective gear for emergency response.
- **Heavy Industry:** Confined space inspections, tank monitoring, and large-scale industrial maintenance tasks.

Certification & Compliance:

- Suitable for use in Zones 1 & 2, Zones 21 & 22 (dust)
- Dust Group IIIA,IIIB
- Gas Groups IIA, IIB ,IIC
- Temperature Class: T4+T3 (depending on cells)
- Complies with EN IEC 60079-0,EN 60079-11 standards
- EX I M2/II 2G Ex ib I Mb/IIC T3/T4 Gb
  II 2 D Ex ib IIIB T200°C Db

Technical Specifications:

- **Light Source:** High Power LED
- **Light Source Output (Lumens):** 200lm
- **Brightness Duration:** Up to 12 hrs
- **Body Material:**Impact Resistant Thermoplastic, Chemical Resistant
- **Power Source:** Operates with 4 x 1.5v AA cells
- **IP Koruma Sınıfı:** IP66+IP67
- **Weight (excl./inc. cells):** Approximately 330 grams.

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

TECHNICAL DETAILS

ATEX COMPACT SAFETY LED TORCH- EX-PROOF TORCHES WITH LED

PRODUCT REFERENCE	TR-60	TR-65
PRODUCT DESCRIPTION	ATEX Right Angle Zone 1 Compact Safety LED Torch	ATEX Right Angle Zone 0 Compact Safety LED Torch
CODE	I M2/II 2G Ex ib I Mb/IIC T3/T4 Gb II 2 D Ex ib IIIB T200°C Db	I M1/II 1G Ex ia I Ma/IIC T3/T4 Ga II 2D Ex ib IIIB T200°C Db
TYPE OF PROTECTION	'ib' intrinsic safety	'ia' intrinsic safety
AREA OF CLASSIFICATION(GAS)	Zones 1 & 2 Gas Groups IIA, IIB IIC	Zones 0, 1 & 2 Gas Groups IIA, IIB IIC
TEMPERATURE CLASS(GAS)	T4 + T3 (depending on cells)	
AREA OF CLASSIFICATION(DUST)	Zones 21 & 22 Dust Groups IIIA and IIIB	
MAX. SURFACE TEMP.(DUST)	T200°C	
AMBIENT TEMPERATURE	-30°C to +40°C	
CERTIFICATE	ATEX Baseefa11ATEX0236 IECEx BAS 11.0116	
ENCLOSURE	Impact Resistant Thermoplastic, Chemical Resistant	
BASE+LENS RING	Shock Absorbing Elastomer	
LENS	Polycarbonate	Toughened Glass
BEAM TYPE	Spot with Fringe	

LIGHT SOURCE	**TYPE**	High Power LED	
	OUTPUT	200lm	High Power 300lm /Medium Power 150lm/ Low Power 30lm
	LIFE	10,000+ hrs	
POWER SOURCE	**PART NO.**	4 x AA cells (LR6)	
	TYPE	4 x LR6 Primary Cells to IEC 60086	
	VOLTS	4 x 1.5v	
LOW BATTERY INDICATOR	**RED LED**	No	Yes
	LOW BATTERY BEAM DIP	Yes	
LOW VOLTAGE CUT OFF		Yes	
LIGHT DURATION		Up to 12 hours	Up to 7.0 hrs / 14 hrs / 159 hours
INGRESS PROTECTION		IP66 + IP67	
WEIGHT (INC.CELLS)		330g	330g

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.