

## Wolf® TR-35+ 2 batteries ,Right Angle ATEX, T4, LED

**Article Number:** 08010203

**IMPA Code:**79 22 88

The Wolf TR-35 is a high-performance LED flashlight featuring **Zone 0** and **Mining (Group I M1)** certifications, specifically engineered for the most hazardous environments. Offered by **IST Safety Ltd, the official distributor of Wolf**, this model meets all professional requirements with its 90-degree right-angle structure and compact design.



The device holds the highest level of protection, allowing it to operate safely in environments where explosive gases or dust are continuously present. While providing a powerful 130-lumen beam through its advanced optical system, it offers extended runtimes on just 4 AA batteries. Its durable polymer body and integrated clip allow for "hands-free" operation, significantly enhancing operational safety.

## Usage Areas

- **Mining:** Underground coal mines, most hazardous galleries with firedamp risks (M1 compliance).
- **Oil & Gas:** Zone 0 areas with continuous gas leakage risks, refineries, and platforms.
- **Chemical & Petrochemical:** Production and storage facilities with high concentrations of flammable dust and gas.
- **Fire & Rescue:** Hands-free illumination for emergency response by clipping the right-angle head onto gear.

## Certification & Compliance:

- Suitable for use in Zones 0,1 & 2, Zones 21 & 22 (dust)
- Dust Group IIIA,IIIB
- Gas Groups IIA, IIB,IIC
- Temperature Class: T4

- Complies with EN IEC 60079-0, EN 60079-11 standards
- EX I M1/II 1G2D Ex ia I Ma/IIC T4 Ga  
Ex ib IIIB T130°C Db

### Technical Specifications:

- **Light Source:** Torch LED Module, Up to 130 lm
- **Light Source Output (Lumens):** Up to 130 lm
- **Brightness Duration:** Up to 14 hours to low power indicator, Up to 17 hours total
- **Body Material/Lens:** Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative
- **Power Source:** It is powered by 2 x 1.5 V batteries
- **Ingress Protection:** IP67
- **Weight (inc. cells):** Approximately 0.500 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



LR Certificate

## TECHNICAL DETAILS

### ATEX SAFETY TORCH WITH LED

MODEL	TR-30+	TS-30+	TR-35+	TS-35+
PRODUCT DESCRIPTION	Primary Cell LED Right Angle or Straight Safety Torch			
	Right Angle Zone 1 & 21	Straight Zone 1 & 21	Right Angle Zone 0 & 21	Straight Zone 0 & 21

<b>CODE</b>	I M2/II 2GD Ex ib I Mb/IIC T4 Gb Ex ib IIIB T130°C Db	I M2/II 2GD Ex ib I Mb/IIC T4 Gb Ex ib IIIB T130°C Db	I M1/II 1G2D Ex ia I Ma/IIC T4 Ga Ex ib IIIB T130°C Db	I M1/II 1G2D Ex ia I Ma/IIC T4 Ga Ex ib IIIB T130°C Db
<b>TYPE OF PROTECTION</b>	'ib' intrinsic safety		'ia' intrinsic safety	
<b>AREA OF CLASS(GAS)</b>	Zones 1 & 2 Gas Groups IIA, IIB and IIC		Zones 0, 1 & 2 Gas Groups IIA, IIB and IIC	
<b>TEMPERATURE CLASSIFICATION(GAS)</b>	T4			
<b>AREA OF CLASSIFICATION (DUST)</b>	Zones 21 & 22 Dust Groups IIIA and IIIB		Zones 21 & 22 Dust Groups IIIA and IIIB	
<b>MAX. SURFACE TEMP. (DUST)</b>	T130°C			
<b>AMBIENT TEMPERATURE (GAS)</b>	-30° to +40 / 55°C	-20°C to +40 / 55°C	-30° to +40 / 55°C	-20° to +40 / 55°C
	Maximum ambient temperature is for use only with certain specified cells, as per product instructions.			
<b>CERTIFICATE</b>	ATEX Baseefa / 07ATEX0091X IECEX BAS 06.0089X / BAS21UKEX0437			
<b>ENCLOSURE</b>	Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative			
<b>LENS</b>	Toughened Glass 4mm			
<b>BEAM TYPE</b>	Medium Spot with Wide-Angle Flood of Fringe Light			
<b>LIGHT SOURCE</b>	<b>PART NO</b>	TP-300		
	<b>POWER</b>	Torch LED Module		

<b>OUTPUT</b>	Up to 130 lm			
<b>LIFE</b>	25,000hrs+ (Fitted for Life)			
<b>POWER SOURCE</b>	<b>PART NO.</b>	2 x H-20 (2 x LR-20 Cell suitable for 55° Maximum Ambient Temperature) (Batteries not supplied with torch)		
	<b>TYPE</b>	LR20 Primary Cells to IEC60086		
	<b>POWER</b>	2 x 1.5v		
<b>LOW BATTERY INDICATOR</b>	Yes			
<b>LIGHT DURATION</b>	Up to 14 hours to low power indicator Up to 17 hours total			
<b>INGRESS PROTECTION</b>	IP67			
<b>WEIGHT(INC.CELLS)</b>	0.500kg	0.475kg	0.500kg	0.475kg

## 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.



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