

Wolf® R-55 Rechargeable Safety Torches

Article Number: 08011550

The Wolf R-55 is a high-performance **next-generation** rechargeable flashlight designed for the most demanding and hazardous environments. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this model is a technological solution that replaces older, heavy-duty lamps with high light output and a lightweight design.

The product holds the highest level of protection certifications, including **I M1 (Mining)** and **Zone 0**, suitable for both underground mines and industrial explosive atmospheres. While providing continuous and powerful illumination thanks to advanced LED technology, its impact-resistant body ensures safe operation even in the toughest field conditions.



Usage Areas

- **Mining:** Underground coal mines, firedamp risk areas, and tunneling works.
- **Oil & Gas:** Refineries, drilling platforms, and storage sites.
- **Chemical Industry:** Production facilities with explosive dust and gas risks.
- **Emergency & Fire Services:** Rescue operations and hazardous material interventions.

Certification & Compliance:

- Suitable for use in Zones 0,1, 2
- Gas Group: IIA, IIB, IIC
- Temperature Class: T4
- Complies with EN IEC 60079-0 and EN 60079-11 standards.
- EX I M1 / II 1G2D
Ex ia I Ma / IIC T4 Ga (-20°C/-30°C/-40°C ≤ Ta ≤ +40°C)
Ex ib IIIB T200°C Db

Technical Specifications:

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

- **Light Source Output (Lumens):** High Power - Up to 300lm / Low Power - Up to 172lm
- **Brightness Duration:** High Power - Up to 3.5hrs / Low Power - Up to 6.5hrs
- **Body Material/Lens:** Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative / Toughened Glass 4mm
- **Power Source:** Rechargeable Battery, Lithium-Ion
- **Ingress Protection:**IP67
- **Weight (Inc. Cells):**0.375kg

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	R-50	R-55
Product Description	Rechargeable Right Angle Safety Torch	
	Zone 1 LED	Zone 0 LED
Code	I M2/II 2GD Ex ib I Mb/II C T4 Gb (-40°C ≤ Ta ≤ +40°C)	I M1/II 1G2D Ex ia I Ma/II C T4 Ga (-40°C ≤ Ta ≤ +40°C)
	Ex ib IIIB T200°C Db IP67	Ex ib IIIB T200°C Db IP67

Type of Protection		'ib' intrinsic safety	'ia' intrinsic safety
Area of Classification (Gas)		Zones 1 & 2	Zones 0, 1 & 2
		Gas Groups IIA, IIB and IIC	Gas Groups IIA, IIB and IIC
Temperature Class (Gas)		T4	
Area of Classification (Dust)		Zones 21 & 22	
		Dust Groups IIIA and IIIB	
Max. Surface Temp. (Dust)		T200°C	
Ambient Temperature		-40°C to +40°C	
Certificate		Baseefa05ATEX0069X / IECExBAS06.0001X / BAS21UKEX0438	
Enclosure		Impact Resistant Thermoplastic, Chemical Resistant, Static Dissipative	
Lens		Toughened Glass 4mm	
Beam Type		High Output Spot Beam	
Light Source:	Type	High Power LED	
	Watts	3 Watts	
	Output	High Power - Up to 300lm / Low Power - Up to 172lm	
	Life	25,000hrs+ (Fitted For Life)	
Power Source:	Part No.	R-271	
	Type	Rechargeable Battery, Lithium-Ion	

Volts	7.4V	
Capacity / Life	2.4Ah / Up to 500 Recharge Cycles	
Light Duration	High Power - Up to 3.5hrs / Low Power - Up to 6.5hrs	
Ingress Protection	IP67	
Weight (inc. cells)	0.375 Kg	
Chargers	12-24Vdc RC-200L / 90-264Vac RC-200H	
Recharge Time	3.0 hours (90% in 1.5 hours)	
Product Reference	R-50	R-55

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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