

**EU TYPE EXAMINATION CERTIFICATE****Certificate No: 2163-PPE-2307****ISM GmbH**

Koggenweg 1, 59557 Lippstadt – GERMANY

It is certified that the manufacturer's technical file (Dated 01.12.2023) and the PPE product, detailed below, have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 based on the evaluation on technical documentation and relevant test reports.

**Identification of the Personal Protective Equipment**

Product Identification	: Safety Footwear
Sole Structure	: Cemented Construction– Non-Metallic Perforation-Resistant Inserts (Type PL)
Sole	: TPU
Toecap	: Metallic Toecaps
Size	: EUR 39-47
Class	: Class I
Brand Name	: PUMA
Type/Model	: 632260
Category	: S1 PL (Design B)
Additional Requirements	: FO, SR
PPE Category	: II

Details are provided in annex 2163-PPE-2307-1 of this certificate.

**The following harmonised standard have been applied:****EN ISO 20345:2022** Personal Protective Equipment - Safety Footwear

Here by the manufacturer is allowed to fix CE mark on the Category II product models given above, with the below requirements under responsibility of the manufacturer;

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9**.
- Ongoing successful performance in fulfilment of the requirements set out in **Personal Protective Equipment Regulation (EU) 2016/425** and harmonised standards, according to **Annex 6 (Module C)** of the regulation

This certificate is initially issued on **15.02.2024** and will be valid for 5 years from the initial issue date, if there is no change in the design of the product, relevant harmonised standards and regulation.



Suat KAÇMAZ  
UNIVERSAL CERTIFICATION  
Director

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Bu belge standart ve yasal şartlarda herhangi bir yasal değişiklik olmaması durumunda ve her yıl yapılacak gözetim ve denetimlerine bağlı olarak gözetim ve denetimlerini takiben belge numarası değişmeksizin yayın tarihi güncellenerek yeniden düzenlenecektir. This certificate will be in the absence of any changes in standard and legal terms, and with the surveillance audits to be conducted annually following the surveillance audits, updating the publication date without changing the certificate number.





Annex 2163-PPE-2307-1

## PRODUCT PHOTOS



**UPPER** (Black Suede Leather Microfiber - Black PU Swatch - Black Synthetic Leather (Logo))

**Tear strength:** Leather Min 120

Coated fabric and textile Min 60 N

**Tensile properties:** Leather split Min 15 N/mm<sup>2</sup>

**Water vapour permeability and coefficient:** Min 0.8 mg/cm<sup>2</sup> hour, Min 15 gr/cm<sup>2</sup>

**LINING** (Red Polyester Textile)

**Tear Strength:** Textile Min 15 N

**Abrasion Resistance:** No holes before, Dry Min 25600, Wet Min 12800 cycles

**Water Vapour Permeability:** Min 2 mg/cm<sup>2</sup>·h,

**Water Vapour Permeability Coefficient:** Min 20mg/cm<sup>2</sup>

**TOUNGE** (Red Polyester Textile - Black Polyester Textile)

**Tear Strength:** Coated fabric and textile, Min 18 N

**OUTSOLE** (TPU - Density: > 0.9g/cm<sup>3</sup>)

**Thickness:** Min 6 mm

**Cleat Height:** Min 2.5 mm

**Tear Strength:** Min 8kN/m

**Abrasion Resistance:** Max 150 mm

**Flexing Resistance:** Max 4 mm cut growth before 30,000 cycles

**Hydrolysis:** Max 6mm cut growth before 150,000 cycles

**Slip resistance on ceramic tile floor with sodium lauryl sulphate solution:** forward heel slip ≥ 0,31 - backward forepart slip ≥ 0,36

**Upper/outsole bond strength:** Min 4 N/mm

**Penetration Resistance:** Min 1100 N

**Antistatic Footwear:** Min 100 kΩ, Max 1000 MΩ

**Energy absorption of seat region:** Min 20 J

**Toecap Impact Resistance:** 200 J ± 4 J

**Toecap Compression Resistance:** 15 KN ± 0.1 KN

**ADDITIONAL REQUIREMENTS**

**Resistance to Fuel Oil:** Max increase in volume 12%

**Slip resistance on ceramic tile floor with glycerine:** forward heel slip ≥ 0,19 - backward forepart slip ≥ 0,22

**INSOLE**

**Thickness:** Min 2 mm

**Abrasion resistance:** Min 66% of original thickness after 400 cycles

**Water absorption:** Min 70 mg/cm<sup>2</sup>

**Water desorption:** Min %80 of the absorbed water

**MARKING**

EN ISO 20345:2022

S1PL FO SR

122037 345

EA28022/03.24 CE

**632260**

EUR UK US

43 9 10

ISM, Germany  
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Made in Türkiye



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