

EU TYPE EXAMINATION CERTIFICATE**Certificate No: 2163-PPE-2252****ISM Heinrich Krämer GmbH & Co. KG**
Koggenweg 1, 59557 Lippstadt – GERMANY

It is certified that the manufacturer's technical file (Dated 15.03.2023) 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	: 632240 (Design B)
Category	: S3L
Additional Requirements	: FO, SR
PPE Category	: II

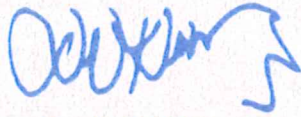
Details are provided in annex 2163-PPE-2252-1 of this certificate.

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 **15.06.2023** 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

**UNIVERSALCERT.COM****UNIVERSAL SERTİFİKASYON UYGUNLUK DEĞERLENDİRME A.Ş.**

Tatlısu Mahallesi Arif Ay Sokak No:16 Ümraniye, İstanbul Tel: +90 216 455 80 80

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 değişimsiz 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-2252-1

PRODUCT PHOTOS



UPPER (Black nubuck leather, Black Synthetic Leather-Logo)

Tear strength: Leather Min 120 N

Coated fabric and textile Min 60 N

Tensile properties: Leather split Min 15 N/mm²Water vapour permeability and coefficient: Min 0.8 mg/cm². hour, Min 15 gr/cm²

Water penetration and absorption: End of 60 min, water penetration max 0.2g, water absorption max %30

OUTSOLE (TPU - Density: > 0.9g/cm³)

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 k Ω , Max 1000 M Ω

Energy absorption of seat region: Min 20 J

Toecap Impact Resistance: 200 J \pm 4 JToecap Compression Resistance: 15 KN \pm 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

LINING (Black 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/cm².h.Water Vapour Permeability Coefficient: Min 20mg/cm²

TOUNGE (Black Polyester Textile - Synthetic Leather)

Tear Strength: Coated fabric and textile, Min 18 N

INSOLE

Thickness: Min 2 mm

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

Water absorption: Min 70 mg/cm²

Water desorption: Min %80 of the absorbed water

MARKING

EN ISO 20345:2022

S3 L FO SR

122037

EA27632 /04.23 C E UK

632240

EUR UK US

43 9 10

ISM, Germany

Koggenweg 1, Lippstadt

Made in Türkiye



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