



**PRODUCT CERTIFICATION  
TECHNICAL SPECIFICATION n. 037  
ANNEX TO CERTIFICATE n. 037**

**COMPANY  
PREALPINA S.r.l.**

**PRODUCT  
“IDROTECH<sup>R</sup>”**

The product “Idrotech<sup>R</sup>” (full grain and sanding leather):

1. Has been tested according to the characteristics indicated into the table and their requirements referred to UNI EN ISO 20345 “*Personal protective equipment - Safety footwear*” for upper’s leathers **(as table below)**
2. Is in compliance with the essential characteristics of with UNI 10594 “*Characteristics of leather to be used in footwear industry*” **(as table below)**

| Characteristics                                             | Methods                                      | Requirements                                                    |
|-------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------|
| Measurement of tear load                                    | EN ISO 3377-2                                | $\geq 120 \text{ N}^{(1)}$                                      |
| Tensile strength                                            | EN ISO 3376                                  | $\geq 10 \text{ N/mm}^2$                                        |
| Water vapour permeability                                   | UNI EN ISO 14268<br>UNI EN ISO 20344         | $\geq 0.8 \text{ mg/cm}^2\text{h}$<br>$\geq 15 \text{ mg/cm}^2$ |
| Water resistance:<br>Water absorption<br>Water transmission | UNI EN ISO 5403-1<br>UNI EN ISO 20344        | after 60 min. $\leq 30\%$<br>after 60 min. $\leq 0.2 \text{ g}$ |
| pH<br>$\Delta \text{ pH}$ (Difference figure)               | UNI EN ISO 4045                              | $\geq 3.2$<br>$\leq 0.7$                                        |
| Azodyes (Banned aromatic amines)                            | UNI EN ISO 17234 - 1<br>UNI EN ISO 17234 - 2 | Absent <sup>(2)</sup>                                           |
| Chromium VI                                                 | UNI EN ISO 17075                             | Absent <sup>(3)</sup>                                           |
| Formaldehyde                                                | UNI EN ISO 17226 - 1                         | $\leq 75 \text{ mg/kg}$                                         |
| Pentachlorophenol<br>Tetrachlorophenol                      | UNI EN ISO 17070                             | $\leq 1 \text{ mg/kg}$<br>$\leq 1 \text{ mg/kg}$                |

The previous referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

<sup>(1)</sup> Tear load referred to a thickness exceeding 1.60 mm

<sup>(2)</sup> Absence referred to each banned azodyes, which limit is set by the system of detection method. This kind of method judges non-significant values less than 30 mg/kg

<sup>(3)</sup> the absence of Chromium VI is then compared with the limits set by the system of detection method. This kind of method judges non-significant values less than 3 mg / kg

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ICEC Director

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