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IAAF and DIN CERTCO  
**ISO 17025 (STS 411)**

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CH 8207 Schaffhausen

July 15, 2004

## LAB REPORT

IST Reference: 6419/Kol/gl  
Subject: Synthetic Sports Surfacing  
Lab Test acc. to IAAF Performance Specifications

The IST has been requested to test a sample of a synthetic surface to be used for track and field events acc. to the IAAF '*Performance Specifications for Synthetic Surfaced Athletics Tracks*'.

### 1. Description of Sample

Name of Product		<b>Conipur MX</b>
Description	Top Texture	Granular Texture, Grain Size 1/4 mm
	Top Layer	Full Depth PUR Coating Conipur 210 red-brown with broadcast EPDM Granules Thickness about 3.5 mm
	Base Layer	Full Depth PUR Coating Conipur 208 red-brown with embedded Black Recycling Granules (compact and foamy), Thickness about 11 mm
Total Thickness		14.5 mm absolute

### 2. Sampling

Location Conica Technik, Schaffhausen  
Date June 2004

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### 3. Delivery of Samples

Date	June 10, 2004
Amount and Size of Samples	2 sections 100 cm x 70 cm
IST Sample No.	5609

### 4. Test Procedures

The test procedures followed were those described in the above document. For measuring the friction coefficient, the sliding tester acc. to DIN 18035 part 6 was utilized. The **overall** thickness was determined with the 3 prong device acc. EN 1906. The **absolute** thickness is defined as the overall thickness minus 1.0 mm to take account for the surface texture.

### 5. Test Results

#### 5.1 Force Reduction

Temperature	+10°C	+23°C	+ 40°C
Force Reduction % <i>IAAF Req : 35-50 %</i>	39	40	41

#### 5.2 Modified Vertical Deformation

Temperature	+10°C	+23°C	+40°C
Modified Vert. Deformation mm <i>IAAF Req : 0.6-2.2 mm</i>	1.4	1.6	1.8

#### 5.3 Friction

Surface Condition	Test Sole	Sliding Coefficient DIN 18035-6/TRRL
Wet <i>IAAF Req ≥ 0.5 DIN / ≥ 47 TRRL</i>	Leather	0.54 / 50

## 5.4 Permeability

Non Permeable
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## 5.5 Tensile Properties

Tensile Strength    N/mm <sup>2</sup>	0.51  <i>IAAF Requirement: ( ≥ 0.4 porous surfaces) ≥ 0.5 non-porous surfaces</i>
Elongation at Break    %	42  <i>IAAF Req ≥ 40</i>

## 6. Conclusions

The surface product **Conipur MX** tested met all requirements of the *IAAF Performance Specifications for Synthetic Surfaced Athletics Tracks* in respect to all material dependant characteristics.

The test results contained in this report reflect the product characteristics as determined with the submitted sample. They are applicable to the product in general if the surface product is manufactured/installed with the same material components and installation technique as used manufacturing the tested sample.

Provided no change is made to the formulation and/or method of preparation of the material, these findings remain valid until July 15, 2008 according to the *IAAF Performance Specifications*.

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