

# Prof. Dr. Georg Kurz GmbH

## Unabhängiges Prüflabor

Prof. Dr. Georg Kurz GmbH · Eupener Straße 161 · 50933 Köln

AHC  
Oberflächentechnik Holding GmbH  
Boelckestraße 25 - 27

50171 Kerpen

Institut für Lebensmittel-,  
Handels- und pharma-  
zeutische Chemie und  
Technologie, Köln

Staatl. Gepr.  
Lebensmittelchemiker,  
Zulassung für aml.  
Gegenproben, mit  
öffentlich bestellten  
und vereidigten Sachver-  
ständigen der IHK Köln

Nach DIN EN ISO/IEC 17025  
durch die DAP Deutsches  
Akkreditierungssystem Prüf-  
wesen GmbH akkreditiertes  
Prüflaboratorium

Die Akkreditierung gilt für  
die in der Urkunde aufge-  
führten Prüfverfahren



Date: July 8, 2004

Initials: gk/kir

### **Test report on St 37 test plates, DURNI-COAT® (DNC 571) with layer thickness of 20 µm**

Sample no.: B-2733/04  
Sender: see above  
Sample receipt: June 30, 2004 10:00 AM by c  
Sample temperature: Ambient temperature (uncooled)  
Number of samples: 8 test plates  
Start of test: July 1, 2004  
Scope of test: as per your order dated June 29, 2004 on  
marketability (**FDA**)  
End of test: July 8, 2004

#### **1. Sample description**

##### **1.1 Sample denomination**

**St 37 DURNI-COAT® (DNC 571)**

**Layer thickness: 20 µm**

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##### **1.2. Packaging:**

See-through plastic bag with adhesive label

##### **1.3. Appearance:**

Typical shiny metal plates

- 2 -

**Ref. B-2733/04:**

**2. Legal foundations**

- Law on the transportation of foodstuffs, tobacco products, cosmetics and other commodities (Federal Law Gazette 1, pg. 2296) as amended on November 25, 2003 (Federal Law Gazette 1, pg. 2304)
- Decree on commodities (Federal Law Gazette III/FNA 2125-40-46) dated December 23, 1997 as amended on March 7, 2003 (Federal Law Gazette I, pg. 486)

**3. Chemical tests**

**3.1. Test for heavy metals:**

(ASU methods, art. 35 of the Foodstuffs and Commodities Act L-19.00-1)

<b>Parameter</b>	<b>Result</b>
Lead (mg/kg):	<0,002* (unverifiable)
Cadmium (mg/kg):	<0,001* (unverifiable)

\*: the assigned value corresponds to the threshold of measurement

**3.2. Test on the migration of substances on foodstuffs with 4 simulants:**

(ASU methods, art. 35 of the Foodstuffs and Commodities Act B-80.30-2 EG, **FDA**)

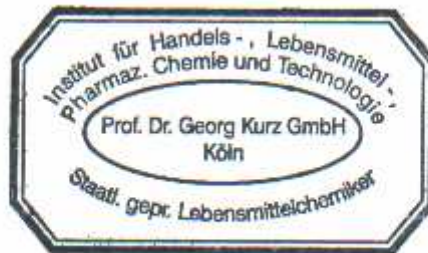
<b>Simulant</b>	<b>Reaction</b>
Aqua dem.	No noticeable reaction: plate unvaried in clear fluid
Acetic acid (CH <sub>3</sub> COOH, 3%)	No noticeable reaction: plate unvaried in clear fluid
Ethanol (CH <sub>3</sub> CH <sub>2</sub> OH, 15%)	No noticeable reaction: plate unvaried in clear fluid
Olive oil	No noticeable reaction: plate unvaried in vegetable oil

**Ref. B-2733/04:**

**4. Assessment of results**

Within the framework of the tests performed it was determined that the present metal plate is suitable for the production of machines that come into direct contact or remain in contact with foodstuffs. The result has shown that the plate has overcome the test without any alterations.

The coating meets the requirements for marketability as per FDA (Food and Drug Administration) standards.



**M. Bauermann / Prof. D. Kurz**

(State-approved food chemists, public appointed and sworn experts of IHK Cologne, authorization to test officially sealed contrasting samples, art. 42 of the Foodstuffs and Commodities Act)

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