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

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** AHC Oberflächentechnik Holding GmbH Boelckestraße 25 - 27, 50171 Kerpen
1 .2. Packaging:	See-through plastic bag with adhesive label
1 .3. Appearance:	Typical shiny metal plates

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Geschäftsführer: Dr. Helmut Weidlich
Bankverbindung: Commerzbank
Kto.-Nr. 275013100 (BLZ 380 400 07)

IBAN: DE92 3804 0007 0275 0131 00
BIC: COBADEFFXXX
Handelsregister Köln: HRB 51601

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)

Parameter	**Result**
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**)

Simulant	**Reaction**
Aqua dem.	No noticeable reaction: plate unvaried in clear fluid
Acetic acid (CH_3COOH, 3%)	No noticeable reaction: plate unvaried in clear fluid
Ethanol (CH_3CH_2OH, 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.

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(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)