

American Research and Testing Inc.

14934 SOUTH FIGUEROA STREET
GARDENA, CALIFORNIA 90248
(310) 538-9709 FAX (310) 538-9965
<http://www.americanresearch.com>

CLIENT: Versaflex
5001 Colina Way
Riverside CA 92507

NUMBER
202-04-028-2
May 1, 2002

SUBJECT: Coating Extraction Tests

REFERENCE:

Tests and charges were authorized by Mr. Joe Haydu on 4/23/02.

SAMPLE DESCRIPTION:

The Client submitted a cured black polyurea coating identified as Black FSS45DC,

REQUEST:

Determine compliance of the coating to 21CFR 175.300 for contact with nonacid aqueous food products, under high temperature heat-sterilized use conditions.

METHOD:

The sample was subjected to the extraction test outlined in 21CFR 175.300(e) Table 2, Condition A. A known surface area of the sample was extracted with distilled water at 250 °F in a closed pressure vessel. The extract was evaporated to dryness in a tared dish. Weight per area was calculated from the data. This test was conducted in duplicate.

RESULTS:

Results	Requirements per 21CFR 175.300		
Black FSS45DC	for containers > 1 gallon, one time	for repeated use containers:	for repeated use non-containers:
0.03 mg/sq.in; extractables as percent of container capacity must be calculated for each container application	1.8 mg/sq.in., max AND 0.005%, max, of water capacity of the food-contact surface	18 mg/sq.in., max AND 0.005%, max, of water capacity of the food-contact surface	18 mg/sq.in., max

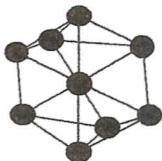
CONCLUSIONS:

The sample complies with CFR 175.300 for use as a coating in contact with Type I Foods (nonacid, aqueous) under Condition A (high temperature heat-sterilized), and less severe conditions (e.g., room temperature storage) for repeated use non-container applications.

B. Belmont
B. Belmont
Senior Chemist

SIGNED FOR THE COMPANY
by

Rita R. Boggs, PhD
Rita R. Boggs, Ph.D.
President



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CLIENT: Versaflex
5001 Colina Way
Riverside CA 92507

NUMBER
202-04-028-1
May 1, 2002

SUBJECT: Coating Extraction Tests

REFERENCE:

Tests and charges were authorized by Mr. Joe Haydu on 4/23/02.

SAMPLE DESCRIPTION:

The Client submitted a cured blue polyurea coating identified as FSS50DM.

REQUEST:

Determine compliance of the coating to 21CFR 175.300 for contact with nonacid aqueous food products, under high temperature heat-sterilized use conditions.

METHOD:


The sample was subjected to the extraction test outlined in 21CFR 175.300(e) Table 2, Condition A. A known surface area of the sample was extracted with distilled water at 250 °F in a closed pressure vessel. The extract was evaporated to dryness in a tared dish. Weight per area was calculated from the data. This test was conducted in duplicate.

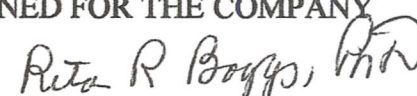
RESULTS:

Results	Requirements per 21CFR 175.300		
Blue FSS50DM	for containers > 1 gallon, one time	for repeated use containers:	for repeated use non-containers:
0.03 mg/sq.in.; extractables as percent of container capacity must be calculated for each container application	1.8 mg/sq.in., max AND 0.005%, max, of water capacity of the food-contact surface	18 mg/sq.in., max AND 0.005%, max, of water capacity of the food-contact surface	18 mg/sq.in., max

CONCLUSIONS:

The sample complies with CFR 175.300 for use as a coating in contact with Type I Foods (nonacid, aqueous) under Condition A (high temperature heat-sterilized), and less severe conditions (e.g., room temperature storage) for repeated use non-container applications.


B. Belmont
Senior Chemist

SIGNED FOR THE COMPANY
by 
Rita R. Boggs, Ph.D.
President