



July 27, 2011
Page 1 of 5
IPS FI 01834-11

Report to: Greenpeace Germany

Sample identification: 4 bath tissues

Date received: June 30, 2011

Test requested: Fiber Identification, Fiber Analysis with Species Percent

Purchase Order: Credit Card

Report of Fiber Analyses

Enclosed are the results of the analyses performed on the samples we received with your Test Services Request Form.

The species percentages are for the respective components only, not for the entire sample. The error ranges are listed for the pulp types in the Tappi T 401 method and those for the species percentages are generally double this range.

If you have any questions concerning this work, please do not hesitate to contact us.

Signed Walter J. Rantanen
Walter J. Rantanen
Technical Leader, Fiber Sciences
(920) 749-3040 Ext. 127

WJR/bld

Table 1. Fiber Identification of #1 – Cotton Soft, Softly White 2-ply unscented (4 pack)

Some Mixed Tropical Hardwoods were detected.

Hardwood bleached kraft – Principally Acacia with some Eucalyptus and Mixed Tropical Hardwoods

Softwood bleached kraft – Hard Pine (Except Red & Scotch), [White and/or Red Pine], Douglas-fir

Table 2. Fiber Identification of #2 – Cotton Soft, Softly White 2-ply unscented (12 pack)

A trace of Unknown fiber was detected.

Hardwood bleached kraft –Acacia, Eucalyptus and Trace of Unknown fiber

Softwood bleached kraft – [Spruce and/or Hemlock]

Softwood Mechanical – [Spruce and/or Hemlock]

Table 3. Fiber Identification of #3 – Cotton Soft, Softly White Double Length 2-ply (6 pack)

A trace of Unknown fiber (suspected Tropical) was detected

Hardwood bleached kraft – Principally Acacia and Eucalyptus with a Trace of Unknown fiber (suspected Tropical)

Softwood bleached kraft – [Spruce and/or Hemlock], [White and/or Red Pine]

Softwood Mechanical – [Spruce and/or Hemlock]

Table 4. Fiber Identification of #4 – Cotton Soft, Marine Splash 2-ply (4 pack)

Some Mixed Tropical Hardwoods were detected.

Hardwood bleached kraft – Principally Acacia with some Eucalyptus and Mixed Tropical Hardwoods

Softwood bleached kraft – Hard Pine (Except Red & Scotch), [White and/or Red Pine]

Analyzed by WJR

Quality review by BLD

Date(s) of testing July 6, 2011

Table 5. Fiber Identification of #1 – Cotton Soft, Softly White 2-ply unscented (4 pack)

Fiber Type	<u>Softwood</u>	Raw Count	<u>126</u>
Bleaching	<u>Bleached</u>	Weight Factor	<u>0.90</u>
Pulp Process	<u>Kraft</u>	Final Count	<u>113</u>
		% by Weight	<u>12%</u>

Species:

- Principal - [White and/or Red Pine]
- Some - Hard Pine (Except Red & Scotch), [Spruce and/or Hemlock], Douglas-fir, Fir

Fiber Type	<u>Hardwood</u>	Raw Count	<u>2390</u>
Bleaching	<u>Bleached</u>	Weight Factor	<u>0.36</u>
Pulp Process	<u>Kraft</u>	Final Count	<u>860</u>
		% by Weight	<u>88%</u>

<u>Species</u>	<u>Total Vessels Counte d</u>	<u>Calculated Percent By Weight</u>
Acacia	99	≈90%
Eucalyptus	7	≈7%
Mixed Tropical Hardwoods*	3	≈3%

*Suspected tropical hardwoods

Table 6. Fiber Identification of #4 – Cotton Soft, Marine Splash 2-ply (4 pack)

Fiber Type	<u>Softwood</u>	Raw Count	<u>58</u>
Bleaching	<u>Bleached</u>	Weight Factor	<u>0.90</u>
Pulp Process	<u>Kraft</u>	Final Count	<u>52</u>
		% by Weight	<u>8%</u>

Species:

- Principal - Hard Pine (Except Red & Scotch)
- Trace - [White and/or Red Pine]

Fiber Type	<u>Hardwood</u>	Raw Count	<u>1674</u>
Bleaching	<u>Bleached</u>	Weight Factor	<u>0.36</u>
Pulp Process	<u>Kraft</u>	Final Count	<u>603</u>
		% by Weight	<u>92%</u>

<u>Species</u>	<u>Total Vessels Counted</u>	<u>Calculated Percent By Weight</u>
Acacia	78	≈88%
Mixed Tropical Hardwoods	6	≈7%
Eucalyptus	4	≈5%

Method: TAPPI Test Method T 401 om-03 "Fiber Analysis of Paper and Paperboard."
 The Species Percentage determination is an internal method of IPS.

Analyzed by JML & WJR
 Quality Review by BLD
 Date(s) of testing July 25 - 27, 2011

Notes: These results relate only to the item(s) tested. This test report shall not be reproduced, except in full, without written consent of IPS.