An analysis on microfibers generated In household washing

Sample Collection / Primary Analysis

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Brief

This is an analysis of different types of microfibres in household washing. Here are three types of garments having been collected; Cotton, Denim, and Synthetic. First, there is cotton, then denim, and the last one is synthetic. In each wash, the quantity of the garment is approximately 1kg. While washing the discharged water with the dirt and microfibres has been collected. After collecting the dirty water it has been set to normal temperature for 24hours. Lastly, the water has been collected in transparent glasses. After collecting all three samples the different discharged water can be compared, the color is different and the amount of dirt is different.

Collected dirty cotton garments

This is washing of 1kg cotton garments. All clothes are dirty and of cotton fabric. This washing is to analyze how much microfibres can release from 1kg of cotton fabric.
The discharged water which includes the microfibres has been collected.

Washing process of the dirty clothes

Collection of the discharged water while the wash

Collected water after 24hours

Then all the collected water had set for 24hours at a normal temperature. Then the water has been transferred into a glass.
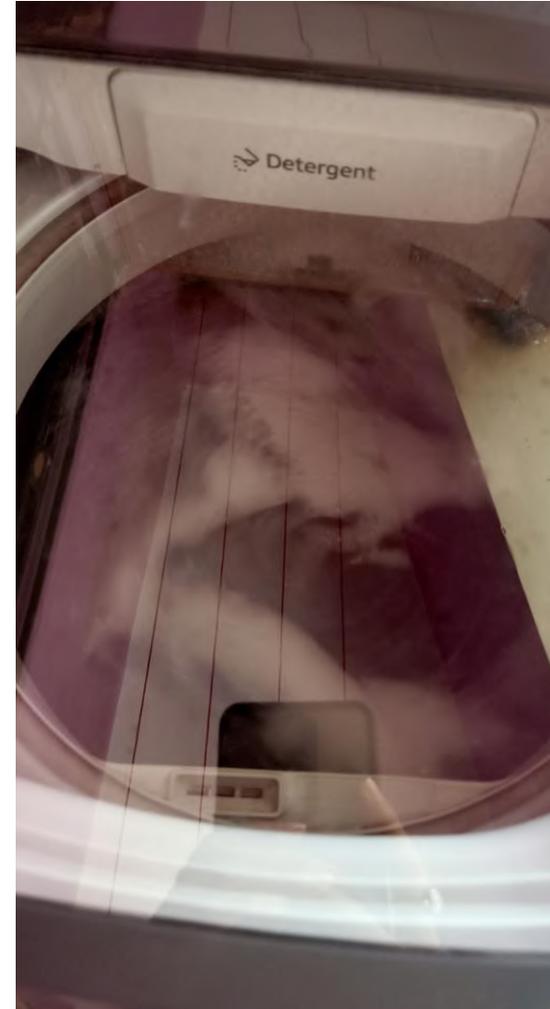

Closer image of sample

Final sample

Collected dirty denim jeans

This is washing of 1kg denim jeans. All clothes are dirty and of denim fabric. This washing is to analyze how much microfibres can release from 1kg of denim fabric.
The discharged water which includes the microfibres has been collected.
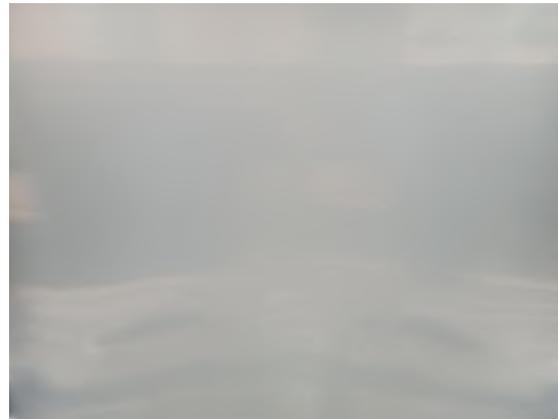

Washing process of the dirty jeans

Collection of the discharged water while the wash

Collected water after 24hours

Then all the collected water had set for 24hours at a normal temperature. Then the water has been transferred into a glass.

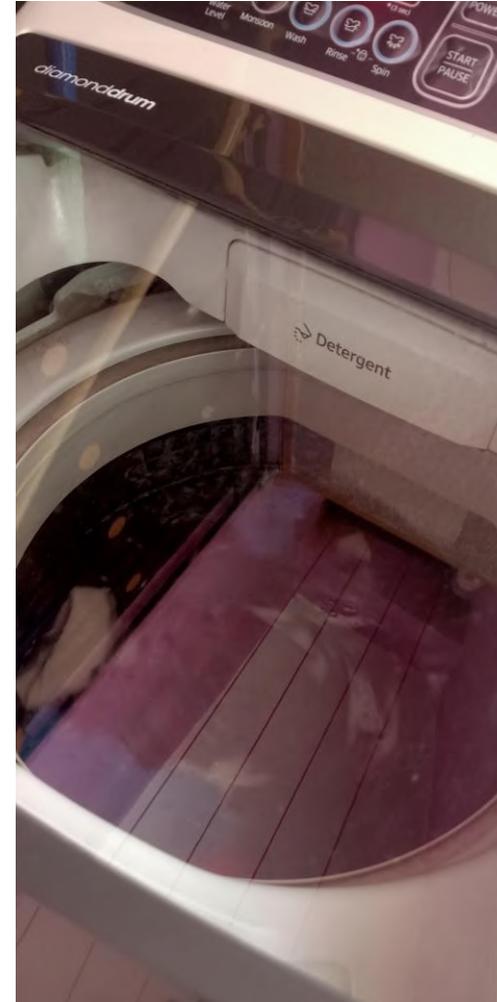
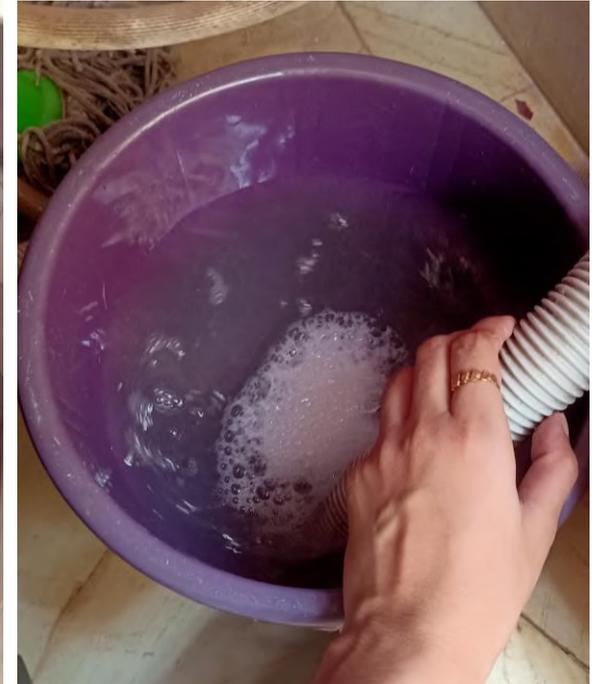**Closer image of sample**

Final sample

Collected dirty synthetic garments

This is washing of 1kg synthetic garments. All clothes are dirty and of synthetic fabric. This washing is to analyze how much microfibres can release from 1kg of synthetic fabric. The discharged water which includes the microfibres has been collected.
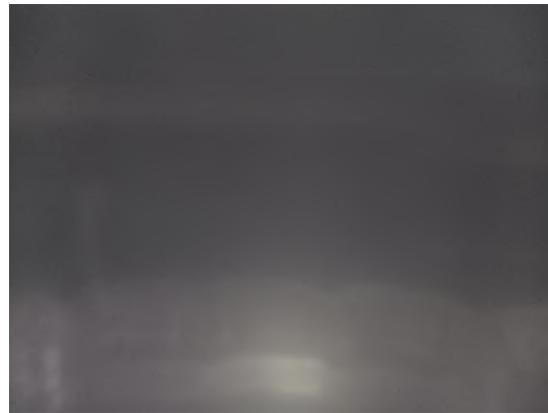

Washing process of the dirty clothes

Collection of the discharged water while the wash

Collected water after 24hours

Then all the collected water had set for 24hours at a normal temperature. Then the water has been transferred into a glass.

Closer image of sample

Final sample

- **Sample of cotton fibre**   - **Sample of denim fibre**   - **Sample of synthetic fibre**

END