



Plus FREE HairBarrier Tools – wear guides, training videos, GMP advice and audit tools with graphical time bound reporting. Click [here](#) to visit HairBarrier Tools online.

From the article in International Food Hygiene Magazine, (click [here](#) to view), the research designed and conducted by Bolton University concluded that factored on average, **85 hairs protrude through a mob cap per person per wear**. Therefore, **per 100 workers, 8,500 hairs are protruding and / or not held** through mob caps worn alone representing a significant threat to both food safety and brand integrity.



RESEARCH FINDINGS DATA




The wearer trial designed and conducted by University of Bolton recorded the hairs protruding through head-coverings from 144 wears per product or product combination. The results were then checked for statistical validity. The head was divided into eight zones and protruding hairs counted both on placement of headwear and to represent the known mechanical forces after one set scratch of the head, both performed to standard operating procedures. To ensure universal representation, subjects were selected to represent a mix of sexes, ethnicities, hair types and hair styles / lengths. Six judges were used to separately record results to remove any bias or ambiguity in the findings.

As previous research proved that head coverings need to have contact with the head of hair in order to contain it, where head-coverings ballooned away from the head and hairs were neither held or protruded due to the gap, the University factored the count of hairs by a percentage equal to the percentage area of the cap per wear which ballooned, thereby removing an inaccuracy in the result. We have noted both the actual and factored findings in the following table.

The results were then totalled and averaged to show the **average number of protruding hairs per person, per wear**. The results gave some alarming findings:

Average Quantity of Protruding Hairs per Person per Wear

[Base 144 wears per product / product combination – tested for statistical validity]

| Head Covering(s) | | University of Bolton Findings | | | | Additional Hair Containment Technology | | |
|-------------------|-------------------|---|---|-------------------------------------|---|---|---|--|
| Under | Outer | Actual Avg Qty Protruding Hairs Per Use | Factored Avg Qty Protruding Hairs Per Use * | Hair Containment Improvement Factor | Short Hair Protruding Over Long Hair Multiplier |  Technology ** |  Technology ** |  Technology |
| None | 12 GSM Mob Cap | 74* | 85 | 0.0 | 2.3 | X | X | X |
| None | KleenCap Standard | 35 | 35 | 2.4 | 2.0 | X | ✓ | X |
| HairTite Standard | 12 GSM Mob Cap | 21 | 21 | 4.0 | 1.6 | ✓ | X | X |
| HairTite Standard | KleenCap Standard | 20 | 20 | 4.3 | 1.7 | ✓ | ✓ | X |
| HairTite HiCare | 12 GSM Mob Cap | 15 | 15 | 5.7 | 1.8 | ✓✓ | X | X |
| HairTite HiCare | KleenCap Standard | 15 | 15 | 5.7 | 1.7 | ✓✓ | ✓ | X |
| HairTite HiCare | KleenCap-Max | 11 | 11 | 7.7 | 1.6 | ✓ | ✓✓ | ✓ |
| HairTite HiCare | KleenCap-Max | 8 | 8 | 10.6 | 1.6 | ✓✓ | ✓✓ | ✓ |

* Note: Where mob caps ballooned away from the head, protruding hairs could not be accurately counted. The University therefore factored the figure to account for the percentage of the head zones where the mob cap ballooned away from the head.

****HairTite and HairBarrier technologies help hold protruding hairs**

CONCLUSIONS

1. Short hairs, on average, protrude through head coverings twice as often as longer hairs. This is due to the mechanical forces applied when fidgeting with headwear, such as when scratching the head or adjusting headwear, together with their tendency to stand more upright. As they are less easily seen, they present a significantly greater threat to food safety and brand integrity than longer hair.
2. With an estimated 85% of the food industry wearing mob caps alone and an average of 74 hairs protruding per individual wear - factored for non-contact at 85 hairs, meaning **per 100 workers, 8,500 hairs are protruding and / or not held** through mob caps worn alone; Is it surprising that hair is the largest contaminate in the food we all eat?



What is the cost to your company of hair complaints due to:

1. Fines,
2. Management time
3. Reputation and lost business / ability to get new business with key accounts



HOW TO CONTAIN HAIR AND REDUCE THE COST OF HAIR CONTAMINATION

The Science of Hair Containment

HairTite

- Unique 'Fold and Hold' technology helps to contain hair, especially important for short hair
- Numerous contact points holding hair flat along each individual shaft
- Excellent for encasing long hair
- Expands and contracts to hold both short and long hair

KleenCap with *staycool* option
contains **hairBarrier** TECHNOLOGY PATENT PENDING

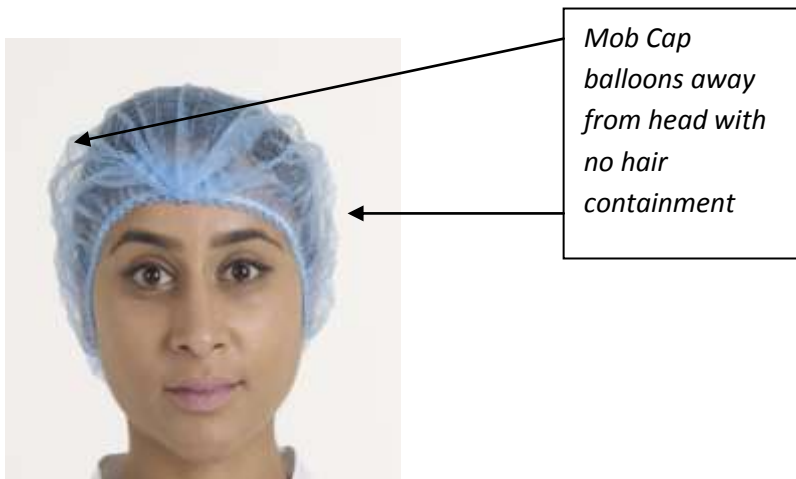
- Expandable fabric to provide high-surface contact with head
- Provides a (+) positive attraction to help hold and retain shed hair
- Intelligent, non-slip structure to help keep hair firmly in place

Wear KleenCap over HairTite for optimum hair containment

Research at University of Bolton concluded that hair containment is best achieved by having two layers where:

1. The inner layer acts to hold and contain hair AND fold hairs flat to minimise the mechanical forces pushing hair through needle and fibre alignment gaps, together with
2. An outer layer that provides both a high contact surface area to hold the head of hair. As some hairs will always protrude through all fabrics, whilst this can be limited, the fabric structure should also try to limit their passage through the fabric. This can be achieved by combining three technical features of:
 - Gripping feature for individual hairs,
 - Non-slip inner construction to help prevent shed hairs escaping through the fabric and
 - Positive attraction to help retain shed hairs

Whilst there can be no firm guarantees as the mechanical forces applied can vary, the above method is believed to be the best way to contain hair and reduce contamination in critical environments.



Kleen Cap has high surface contact area to the head and works to hold shed hairs by

1. *Positive attraction,*
2. *Non-slip and*
3. *Gripping features*

NEW PRODUCTS DEVELOPED FROM THE UNIVERSITY'S RESEARCH:

HairTite HygieNets provide the specified inner covering layer and are launched now whilst KleenCaps, compatible with HairGon provide the desired outer covering benefits – and are due for launch spring.



HairTite is ABurnet new patent pending stretch to fit technology HygieNet which works to help fold and hold all hair – both long and short. *HairTite's* are available in two ratings, price matched to traditional mesh hairnets as follows:

HairTite

HairTite Standard

HairTite HiCare

Price Equivalent Traditional Mesh Hair net

5mm mesh twin elastic band traditional hairnet

3mm mesh single elastic traditional hairnet

Independently tested: 2 X hair containment of traditional mesh hairnets for the same cost!

Compared to a mob cap worn solo, per average wear, hair containment can be improved:

- **4x** by wearing HairTite Standard underneath, and
- **6x** by wearing HairTite HiCare underneath

Please click to visit our HairTite products:

[HairTite Standard](#)

[HairTite HiCare](#)



UP TO 11 TIMES BETTER CONTAINMENT:

Further significant reductions in protruding hairs were recorded for NEW patent pending KleenCaps with ABurnet's HairBarrier and StayCool technologies which work to hold any protruding hairs in a number of ways. New KleenCaps are due for launch late Spring. Please click [here](#) to contact us and register your interest.



FREE Aids to Manage Staff for Optimum Performance – FREE HairBarrier Tools

Effective hair hygiene relies on both performance hair containment products AND the co-operation of staff. It is essential that staff both wear hair containment products properly and understand that ***their*** actions make ***the*** difference. By using Aburnet's products you will be entitled to full FREE access to Hair Barrier tools – ask your distributor for your FREE access code now and benefit from downloads such as:

1. Wear guide posters
2. Best practice posters such as buddy checks and Your Actions Count!
3. GMP advice with suggested critical limits
4. Staff training videos for canteen and pre-employment with optional competency testing and certificate
5. Web-based Audit tools with graphical time bound reporting.

Make Good Hair Hygiene Simple:

- Make good hair hygiene a KPI
- Instruct supervisors to complete audits on-line for comparison of performance month on month
- Conduct 10 minute monthly management reviews
- Set the focus of attention for the coming month
- Demonstrate your hair containment performance and grow your business with key customers

ACT NOW:



Register to use new HairBarrier Tools [here](#)



Contact your distributor for your personal, confidential, unique access code for full functionality



Reduce your hair contamination!

Click [here](#) to go straight to our Contact Us page on our website
Contact Aburnet Ltd for samples and find your nearest distributor

E-mail: info@aburnet.co.uk

Tel: 01332-874797 – international: +44-1332-874797

Fax: 01332-875284 – international: +44-1332-875284

Web: www.aburnet.co.uk