

Keeping Skin Clean
by
Faeces Separation
in
Diapers and Pants

October 2021

Faeces in Diapers – a challenge and it's solution

Conventional diapers are not made to keep the wearer's skin clean.



Conventional diaper with widespread soiling of wearer's skin and genitals resulting in high cleaning effort

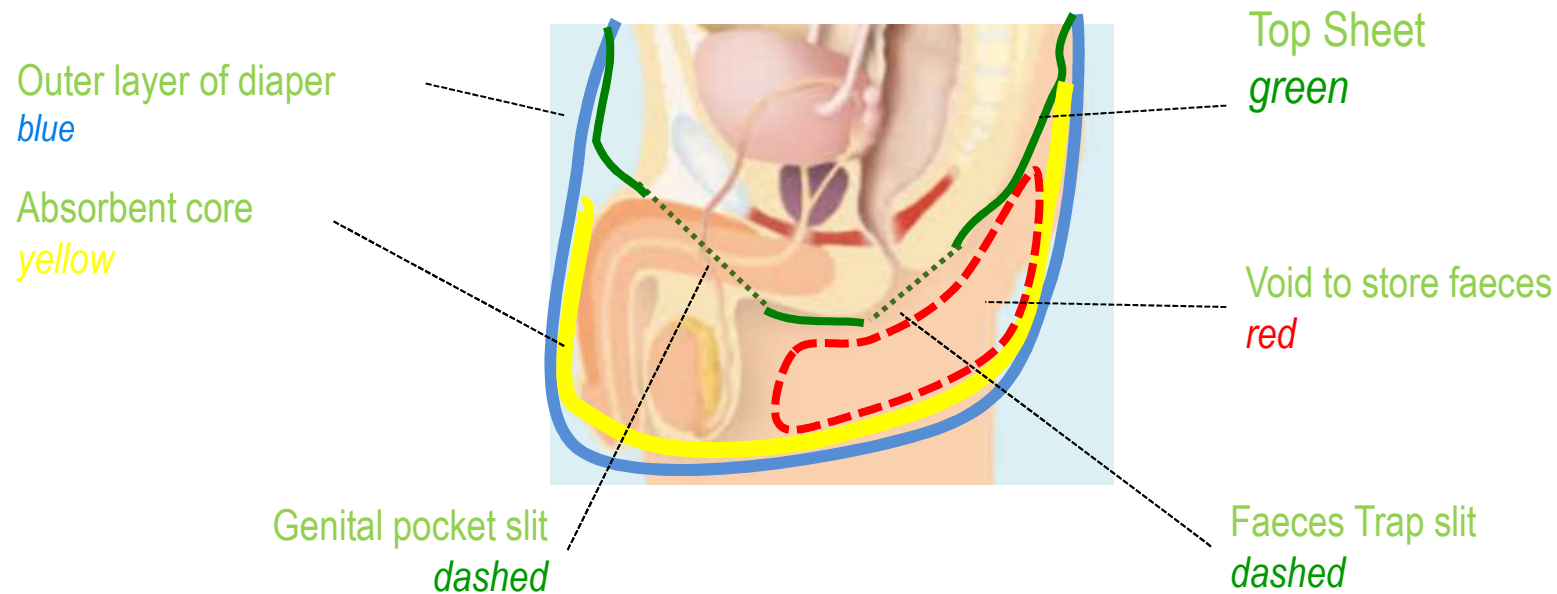
The new diapers are. And pants can be made in a similar way.



New diaper design with faeces separation could significantly contribute to reduce soiling for wearer's benefit and carer's effort

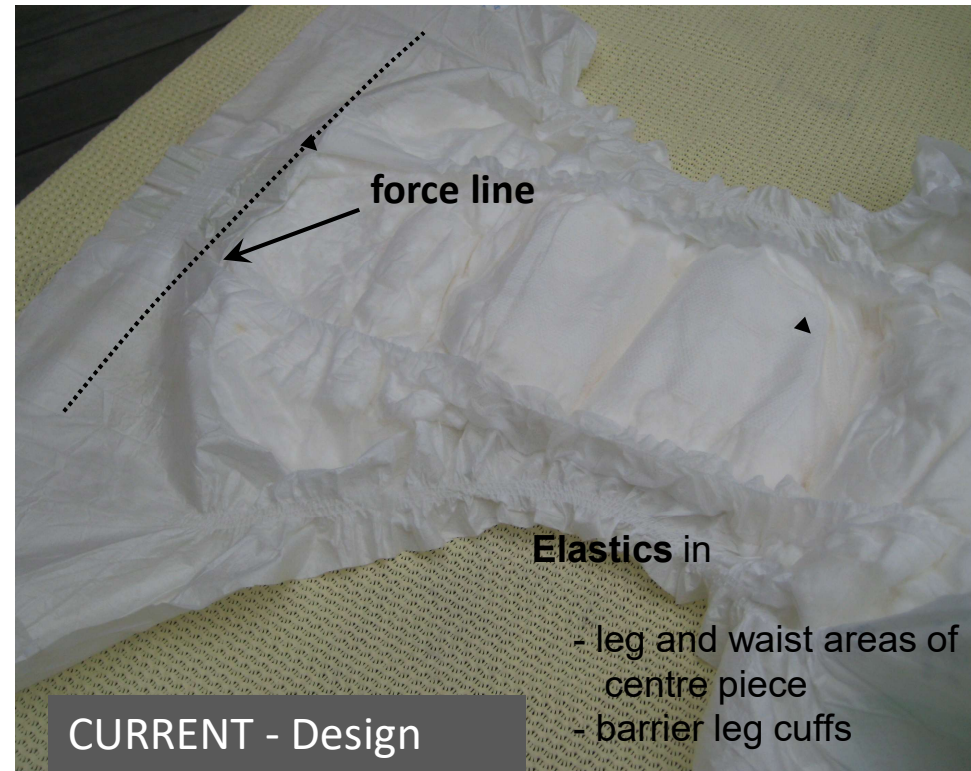
Faeces separation – the story

In order to capture faeces inside a diaper or pull-on, an opening in the top sheet (Faeces Trap) must be positioned and opened sustainably at the wearer's anus when the product is put on. Let's call this functionality of absorbent underwear the **Clean Skin Feature**.



BOCO FIT Design is key for the Clean Skin Feature

BOCO FIT products are not only fixed around the waistline, but also around the legs. This allows precise positioning of top sheet openings.



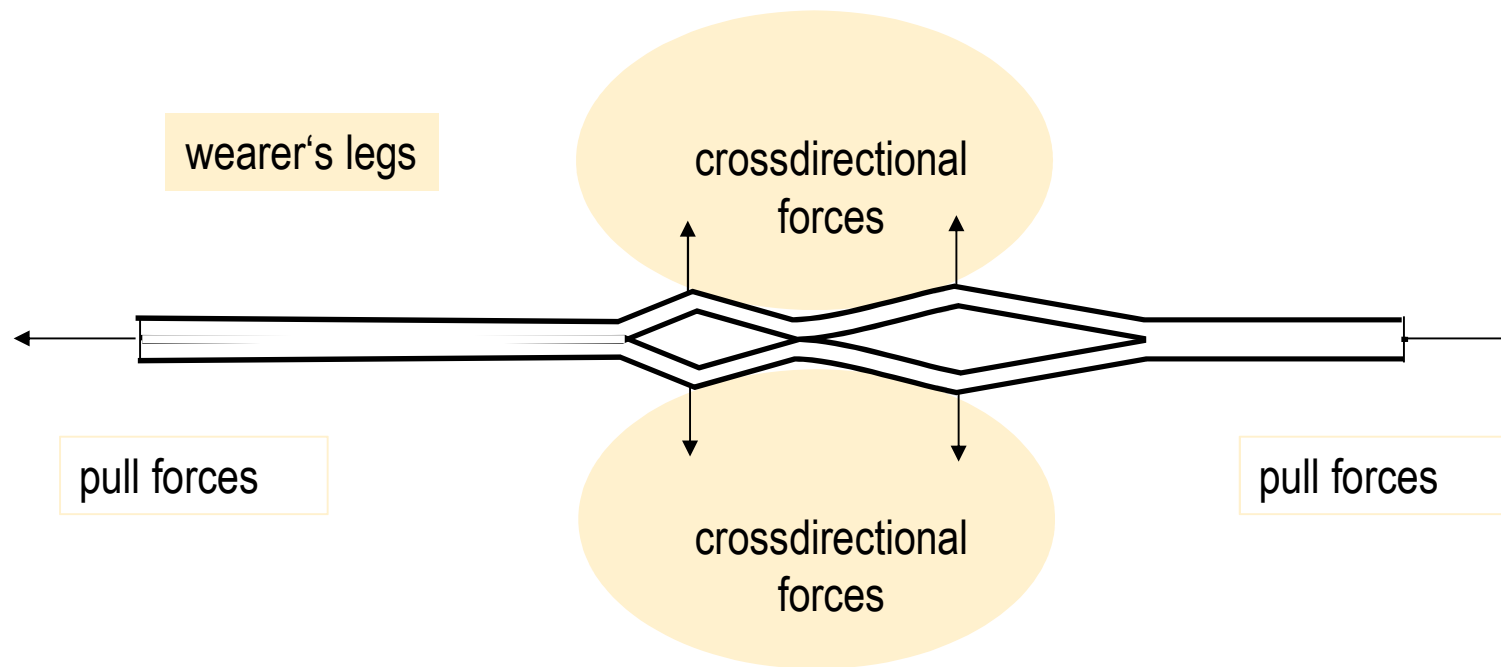
Clean Skin Feature – how does it look like?

A pullband connected to the topsheet shortens when the product is applied, thus creating a force to pull the center of the topsheet to the anus. The pullforce bypasses the genitals. Cross directional forces created around the legs open the Faeces Trap.



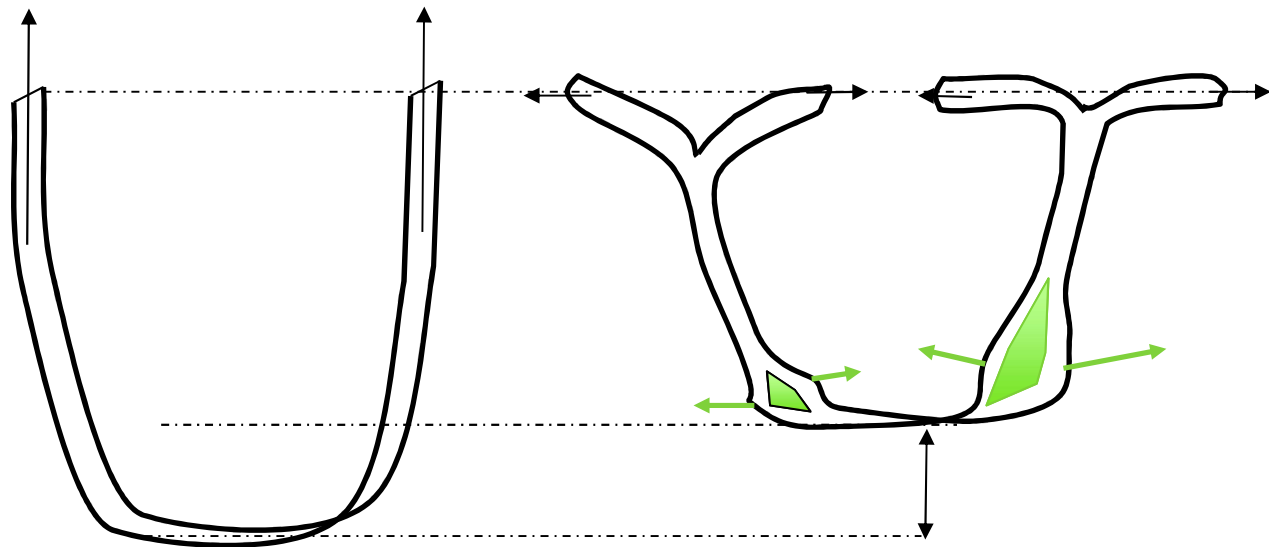
Clean Skin Feature – how does it work?

Top sheet and pullband are slitted partially. The slits of the top sheet are lifted to the anus by pull forces, and opened by cross directional forces generated by the leg hoops. Consequently, faeces must enter the product.



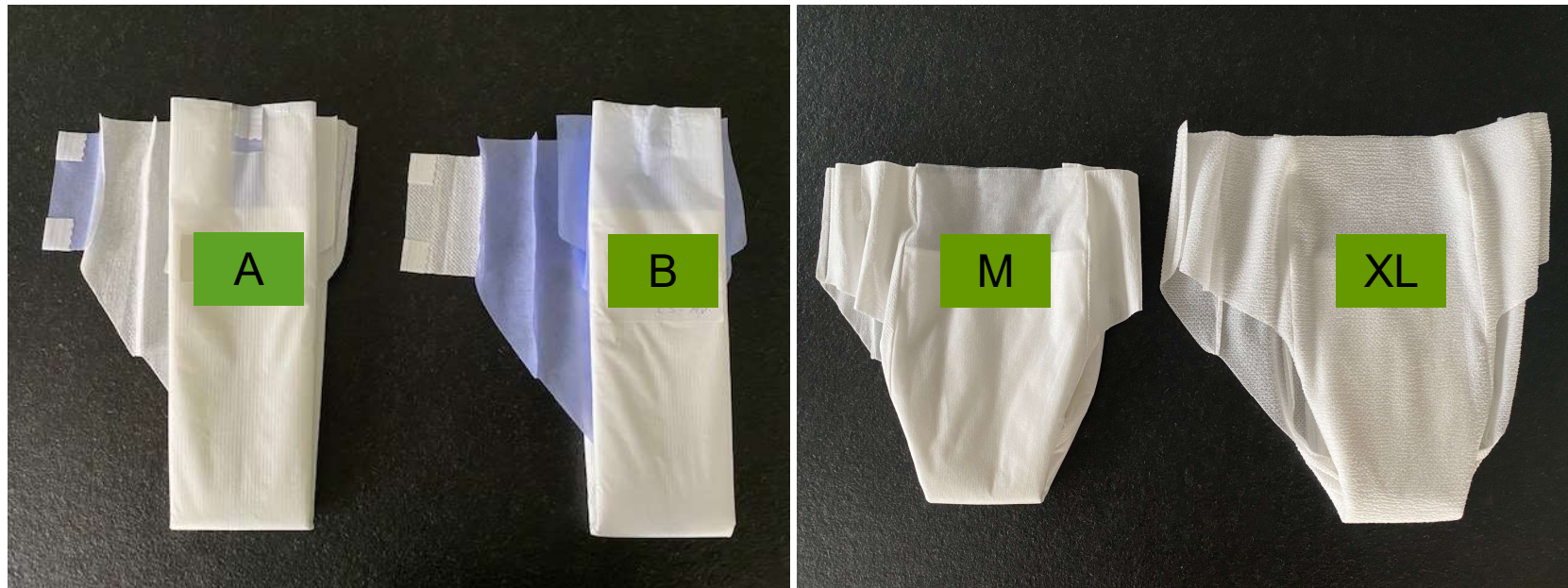
Clean Skin Feature – how are pull forces created?

Slitted pullband is shortened and lifted by unfolding and putting the product on the wearer. Lifting moves top sheet into wearer's body cleft.



Absorbent underwear in the BOCO FIT™ Design

The Clean Skin Feature is applicable for taped and pull-on-type products



M-Size Diapers with Clean Skin Feature
A: cd-elastic sides with tape extension
B: non-elastic sides and taped elastic ears

M and XL size pant with different materials
Optional: (1) Clean Skin Feature
(2) Glue Free Execution

Thank you for your attention

Contact Data of Development Partners

BOCO TECH AG
Dr.-Lieser-Str.2
D-53881 Euskirchen
www.bocotech.eu

Dr. Manfred Plischke
CEO
Frankfurt Office
Ahornweg 18
D-61449 Steinbach
Fon +49 6171 887370

Company	Contact
BOCO TECH AG, Euskirchen	plischke.m@bocotech.eu schmitz.ch@bocotech.eu wurster.th@bocotech.eu
Concepts 4 Success e.K., Euskirchen	christoph.schmitz@c-4-s.de thomas.schmitz@c-4-s.de
