

ZQ 10 COMMANDMENTS  
#1. THOU SHALT

# Have a Lust For Nature



## ZQ MERINO IS 100% NATURAL

ZQ Merino grows in a thick coat on a happy sheep. It is natural, sustainable and biodegradable. Each year this coat is carefully trimmed off and turned into some amazingly soft and comfortable next to skin products such as apparel, underwear, hosiery and baby wear.

ZQ Merino is a renewable fibre, meaning that it is able to regrow and replace itself. In contrast, synthetic fibres such as polyester and nylon are made using industrial processing of oil, which is a non-renewable fossil resource.

循環し、再生する天然繊維 –ウール

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#2. THOU SHALT

# Have Healthy Skin



## ZQ MERINO CAN ENHANCE SKIN HEALTH

ZQ Merino is associated with skin health in a study where four sock fibre types were compared. [1]

In the study, volunteers didn't know what socks they were wearing, so the trial was completely blind. 100% acrylic, 100% cotton, 100% 24.5 micron wool and 100% ZQ Merino wool were worn by each participant. A clean pair of fresh trial socks were worn each day for a minimum of eight hours per day.

Socks that used ZQ Merino were associated with more cases of improved skin health.

[1] Study was carried out by the University of Otago Clothing and Textile Sciences, New Zealand.

調温、調湿、蒸れないウール

ZQ 10 COMMANDMENTS

#3. THOU SHALT

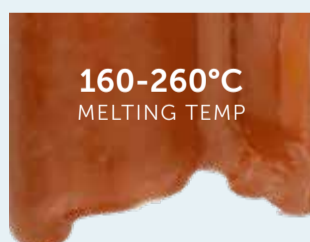
# Be Flame Resistant



## ZQ MERINO WON'T BURN

ZQ Merino will not catch fire, and will only smoulder for a brief moment. This is due to the natural chemical structure of wool, one that is high in both nitrogen and moisture. ZQ Merino is safer to wear due to its natural flame resistance properties.

## FIBRE MELTING POINTS



NYLON



POLYESTER



WOOL

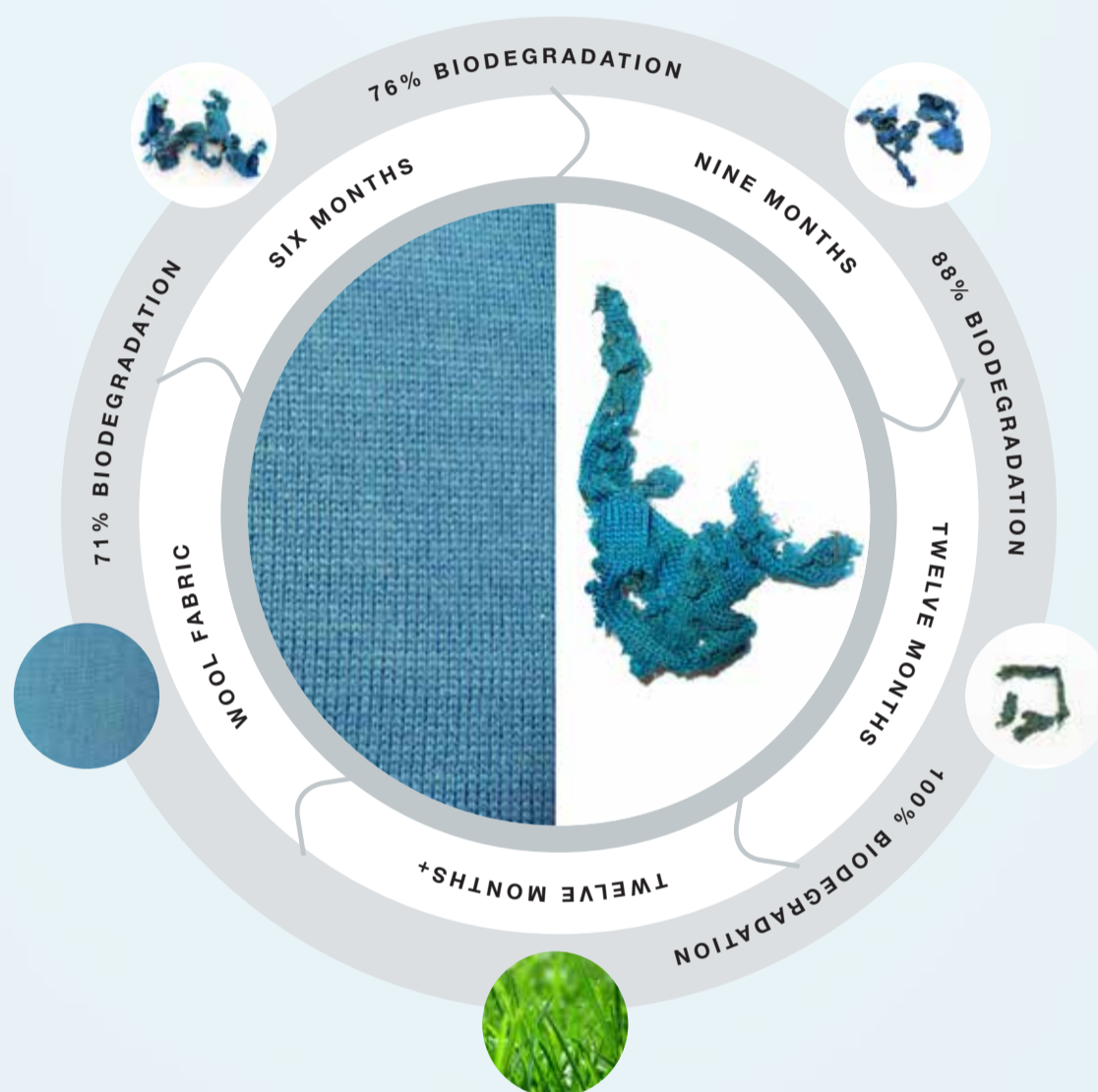
\*ZQ Merino is a naturally safe choice - it is flame resistant, and won't melt and stick to your body causing serious injuries like many common synthetics.

火に対して安全。火を離せば燃え広がらず自然に消えて炭化します。ポリエステルなど石油系合成繊維と違い、溶けて肌に付着するようなこともありません。

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#4. THOU SHALT

# Naturally Shape-Shift



## ZQ MERINO NATURALLY BIODEGRADES

ZQ Merino is basically a protein composed of amino acids, very much like our skin and hair. Amino acids are the building blocks of life. When you bury a wool product in soil under the right conditions, it will naturally biodegrade. In the process, it will release essential nutrients.

Fossil fuel-based fibres such as nylon, polyester, acrylic, and spandex do not biodegrade. Ever. They get smaller and smaller until they become microplastics. Microplastics act as magnets for other nasty contaminants in the environment. A single microplastic can be up to a million times more toxic than the water around it. [1]

[1] Chelsea M. Rochman, Eunha Hoh, Tomofumi Kurobe & Swee J. Teh, Ingested plastic transfers hazardous chemicals to fish and induces hepatic stress

生分解し、土に還る — ウール VS 永遠に海を漂うマイクロプラスチック

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#5. THOU SHALT

# Be Funky Free



## ZQ MERINO KEEPS YOU FRESH

ZQ Merino outperforms other fibres with its ability to resist the build-up of unpleasant odours. Odour molecules are absorbed into ZQ Merino fibre, effectively becoming trapped and less readily detected by the human nose. Odour molecules trapped within the fibre can then be removed during laundering.

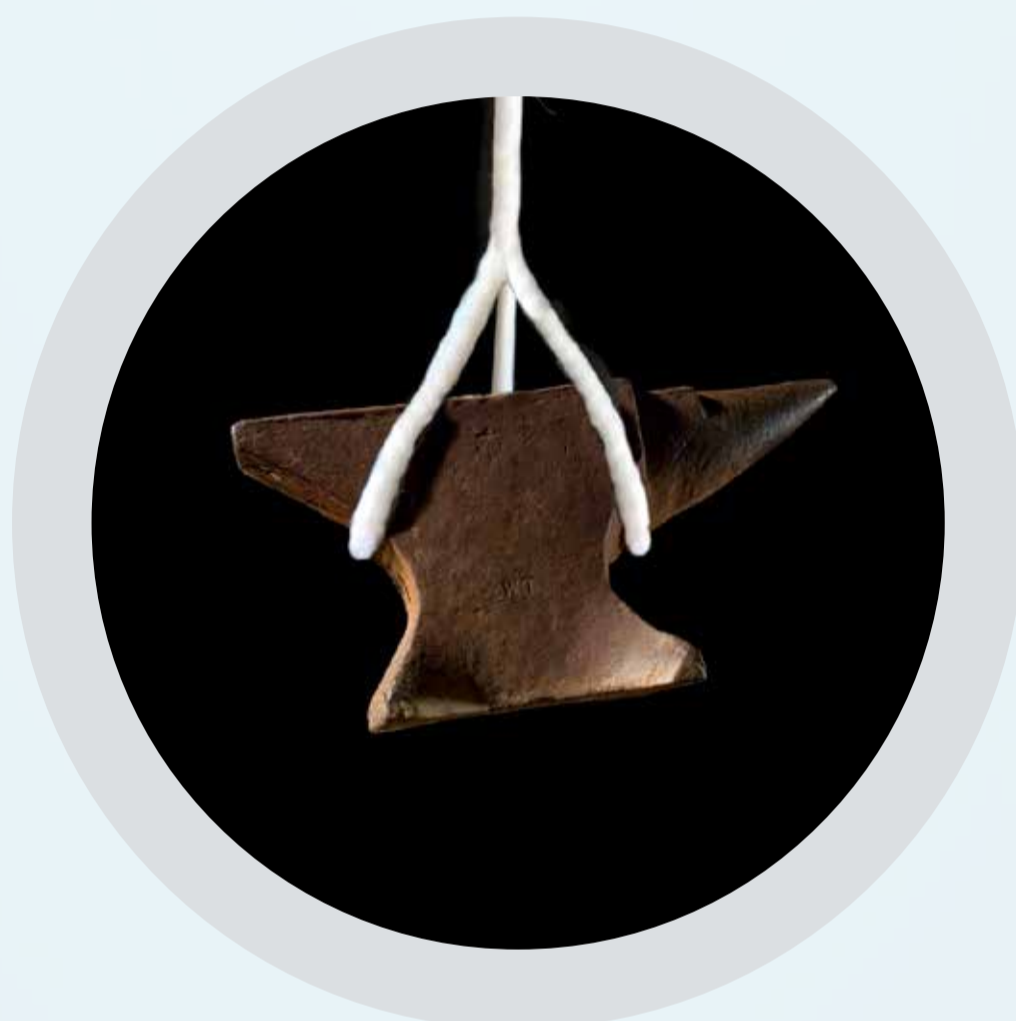
Often, all it takes is a little airing before your garment is ready to wear again. This means your garment doesn't require as much washing and you and your garment stay fresher for longer.

汗臭くなりにくい、優れた消臭機能を持つウール

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#6. THOU SHALT

# Have Strength and Resilience



## ZQ MERINO IS SUPER STRONG

ZQ Merino has a natural crimp which contributes to its resilience performance. This wave-like structure provides a very soft and 'springy' handle. Even after frequent laundering, your ZQ Merino garment will retain its shape, colour and feel.

ZQ Merino has excellent extensibility properties and can be extended by more than 30% of its length without breaking and in turn, can recover from extensions of approximately 20%.

天然のクリンプとバイメタル構造による形状記憶性により  
弾力性を備えた強い繊維 — ウール

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#7. THOU SHALT

# Exercise Like a Machine!



## ZQ MERINO HELPS YOU WORK HARDER

ZQ Merino is a technical fibre that has the ability to control temperature and humidity. When a half Merino and half man-made fibre garment were trialed, these were the results [1]:

- The skin under the ZQ Merino side was drier
- Skin wetness was perceived to be drier on the ZQ Merino side
- The skin temperature was lower on the ZQ Merino side
- Thermal comfort was perceived to be better on the ZQ Merino side

This means you will be able to exercise for longer and more comfortably when wearing ZQ Merino in both summer and winter conditions.

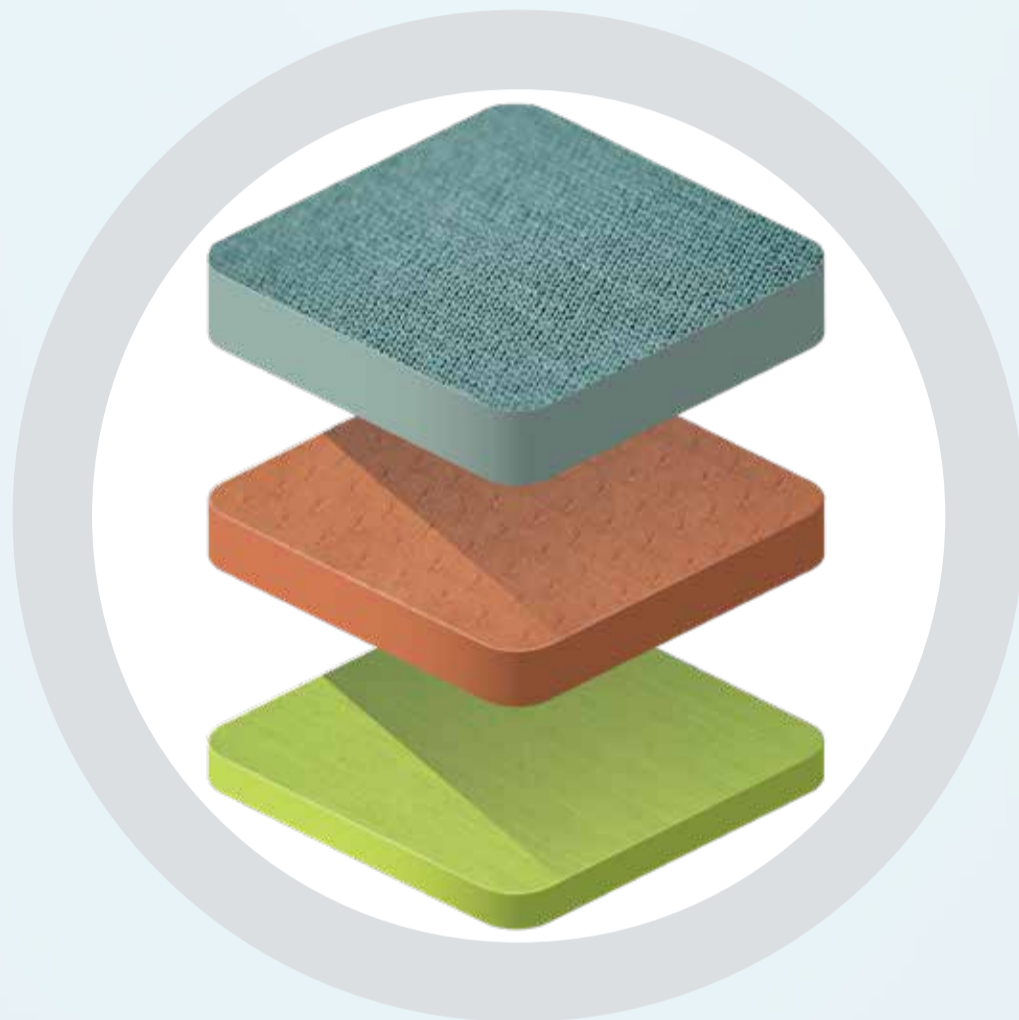
[1] Validation trials were carried out at Victoria University, Melbourne at the Institute of Sports, Exercise and Active Living (ISEAL).

表面は水を弾き、内部は湿気を吸って吐く、快適繊維 — ウール

ZQ 10 COMMANDMENTS

#8. THOU SHALT

# Layer Up For Inner Harmony



## ZQ MERINO LIKES TO LAYER

You are helping support your body's comfort, performance, and health and well-being by layering in ZQ Merino. Depending on the environmental conditions you face, sometimes you will need to add garment layers to help you keep warm, or remove layers to keep you cool.

It is vital that each layer works together seamlessly to support your body's natural heating and cooling system.

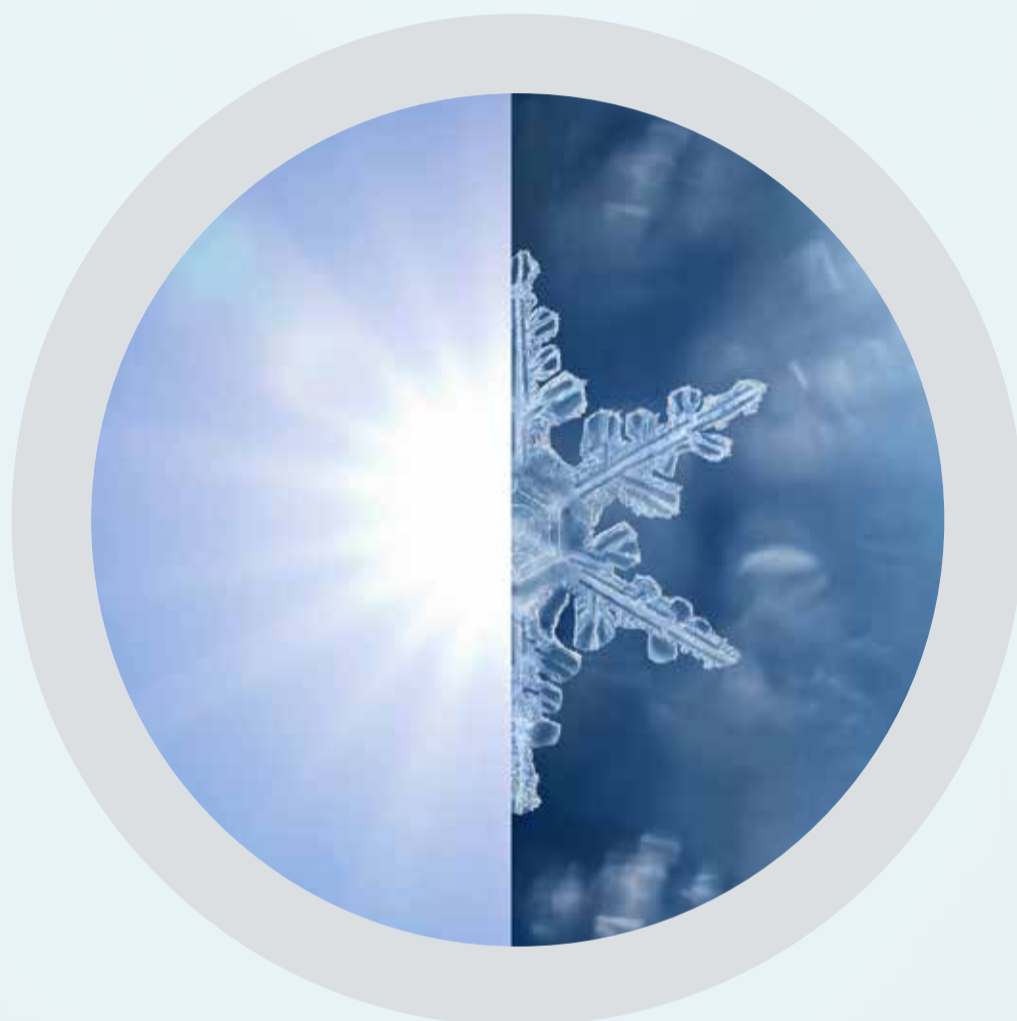
By encouraging the natural fibre connection between your ZQ Merino layers, you are ensuring that non-merino layers do not impede the natural temperature regulation (not too hot, not too cold) and breathable (not too sweaty) attributes of the ZQ Merino.

熱伝導性が低いウールの重ね着で、暑さ寒さから身を守る



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# Stay Well-Balanced



## ZQ MERINO KEEPS YOU COMFORTABLE

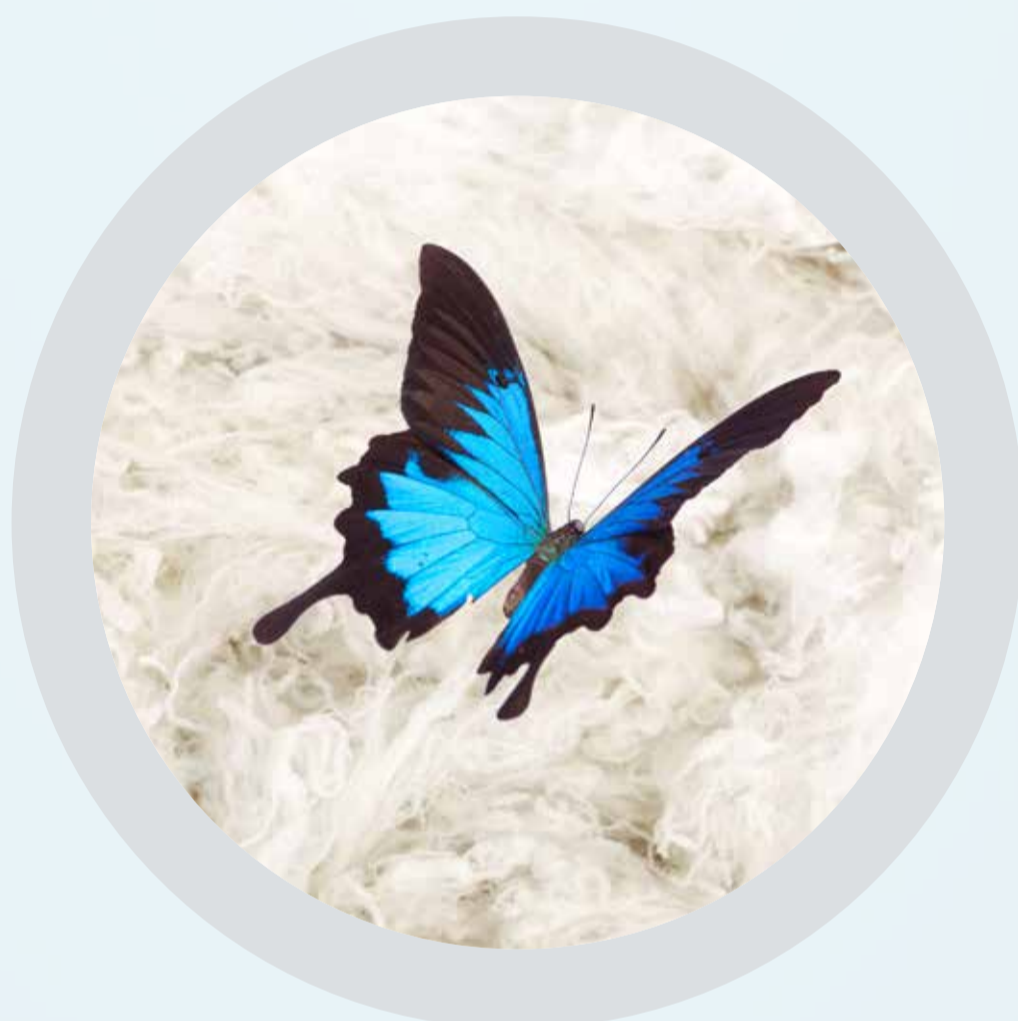
The chemical structure of ZQ Merino fibre means that it has the ability to gain and release heat depending on the external and internal environment – thus buffering wearers against environmental changes – properties that are not shared by synthetic fibres such as nylon and polyester.

As it absorbs moisture, ZQ Merino fibre releases a small, but perceptible amount of heat. In apparel or hosiery application, this prevents the wearer from chilling in wet, cool conditions. In hot conditions the reverse effect occurs, affording a natural means of buffering the body's micro-climate.

外気の温度変化を穏やかに伝え、汗冷えしないウール

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# Look & Feel Zen



## ZQ MERINO IS SOFT

Wearing a ZQ Merino garment next to your skin gives a wonderfully soft and comfortable tactile experience. Once you try ZQ Merino, you'll never settle for anything less.

ZQ Merino fibres typically used in next-to-skin apparel are around 17 to 23 micrometers in diameter and do not stimulate the skin nerve receptors in the same way coarser fibres do. ZQ Merino fibres are so fine that when pressed against the skin they simply bend, meaning there is no sensation of prickle, only softness.

肌刺しが無い繊細でソフトなメリノウール