

## 角質ラメラ構造の相転移温度

角質ラメラ構造の相転移温度は、本来その脂質組成によって一定に決まっています。しかし実際の肌では、界面活性剤・油・温度などの外的要因がこの相転移温度を揺らし、ラメラ構造を意図しない相転移へと追い込みます。

Architecture Water は、これらの攪乱要因を一切持ちません。そのため、肌固有の相転移温度を乱すことなく、ラメラ構造を「液晶状態（柔軟で動きやすい）」と「ゲル／結晶状態（強固なバリア）」の間で適切にコントロールし、最適な相状態を維持し続けます。

この「相転移温度を揺るがさない」という特性こそが、角質ラメラ構造という生体界面（インターフェース）を、排熱と選択的防御のための境界線として正しく働かせる『而立スキンケア』の技術思想の核です。

Architecture Water は、肌の相転移温度を乱さない唯一のスキンケアであり、角質ラメラ構造の而立性を守ることで、肌が本来持つ“自己組織化と巡り”を妨げません。

相転移温度とは、ラメラ構造が「液晶状態⇄ゲル／結晶状態」へと切り替わり始める「境界の温度」です。Architecture Water は、この相転移温度を揺らさない。だから、ラメラ構造は「柔軟さ」と「強さ」を肌自身の判断で切り替え続けられるのです。

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## The Phase Transition Temperature of the Stratum Corneum Lamellar Structure

The phase transition temperature of the stratum corneum lamellar structure is naturally determined and fixed by its specific lipid composition. In real skin, however, external factors such as surfactants, oils, and ambient temperature fluctuate this phase transition temperature, forcing the lamellar structure into unintended phase transitions.

Architecture Water possesses absolutely zero of these disruptive factors. Consequently, without disturbing the skin's inherent phase transition temperature, it allows the lamellar structure to be appropriately controlled between the **"liquid crystal state (flexible and fluid)"** and the **"gel/crystal state (robust and solid barrier),"** maintaining the absolute optimal phase condition.

This exact characteristic of **"never fluctuating the phase transition temperature"** is the core technological philosophy of *Jiritu* (Self-Sustaining) Skincare. It ensures that the lamellar structure—the biological interface—functions correctly as a critical boundary line for heat dissipation (thermal regulation) and selective defense.

Architecture Water is the only skincare system that does not disrupt the skin's phase transition temperature. By protecting the autonomy and self-sustaining nature of the lamellar structure, it never hinders the skin's inherent power of **self-organization and circulation**.

The phase transition temperature is the "boundary temperature" at which the lamellar structure begins to switch back and forth between the liquid crystal state and the gel/crystal state. Because Architecture Water never fluctuates this boundary temperature, the lamellar structure can continuously alternate between **flexibility** and **strength** based entirely on the skin's own biological judgment.