

AQUA DIMA™

INTRODUCTION

“AQUA DIMA™” is Komatsu Matere’s new multi functioning material with both high waterproofness, and breathability to solve humidity inside garment. Sustaining windproof, waterproof, heat-insulating, and stretch ability as the face lamination fabric, AQUA DIMA™ has a new phase of high breathability.

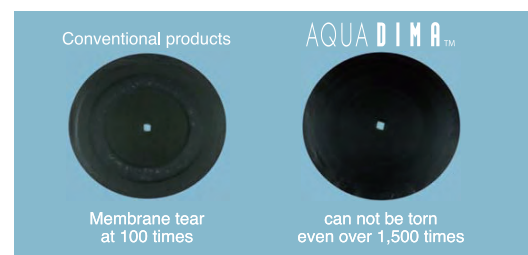
FEATURES

•Solution to humidity with high moisture penetration

Humidity within the fabric can be solved with the equipped moist penetration ability. When used as outerwear, the inside will be kept comfortable. Compared to our conventional product, it has five times more breathability. (Based on the results from JIS L1099 A-1, B-1 Testing)

•Strong durability to abrasion

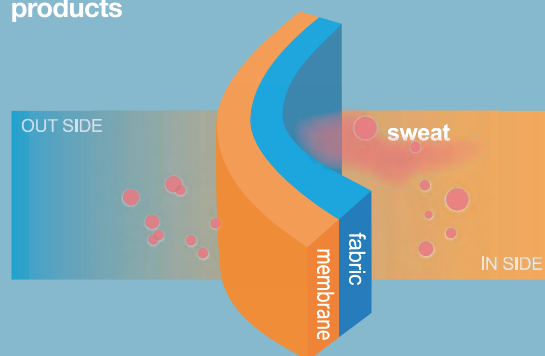
Expected to be practical for sportswear with stronger durability towards abrasion. Compared to the conventional waterproof/breathable membrane, it has enhanced strength in resistance towards scratching and rubbing, based on an over 1500-times rubbing test from JIS-standards (JISL1096C).



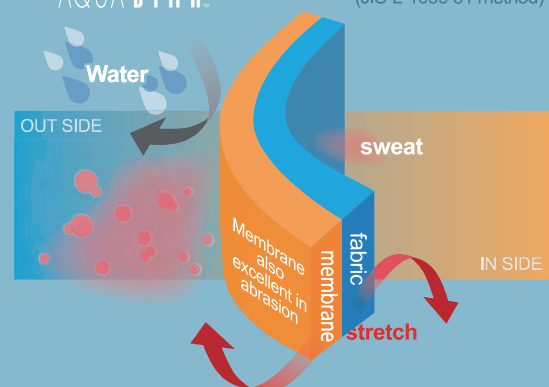
Comparison of wear strength

Image of the difference in breathability

Conventional products



AQUA DIMA



Water pressure resistance
10,000mm<
(JIS-L-1092 method)
Moisture permeability:
B-1 2000g/m²<
(JIS-L-1099 81 method)

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AQUA DIMA™

介绍

小松美特料新开发的“AQUA DIMA™”是一种兼具高度防水性和渗潮性的功能性材料，它解决了材料内侧的闷热感问题。

保留了传统表面层压材料“NEULEID”所具有的防风、防水、保温、拉伸弹性和持久性，同时还开发了新的功能——提高了渗潮性能。

特点

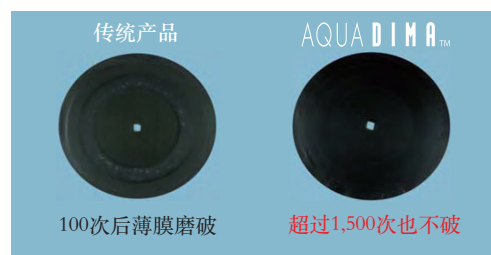
■ “渗潮性”约为传统产品的5倍，消除了不透气的闷汗问题

具有渗潮性，解决了来自材料内侧的闷热感。用于制作外套时，AQUA DIMA™可保持衣内构造的舒适性。已证实其渗潮性约为我公司传统产品的5倍※。

■ 薄却耐磨损，实现了“持久性”

具有很强的耐摩擦磨损性，有望作为运动服这样受外部刺激较多的产品的原材料而得到实际应用。

在基于JIS标准的、超过1500次的磨损试验(JIS L1096C Taber方式)中，也已证明它比传统渗潮防水膜具有更高的持久性、耐擦性和耐磨性。

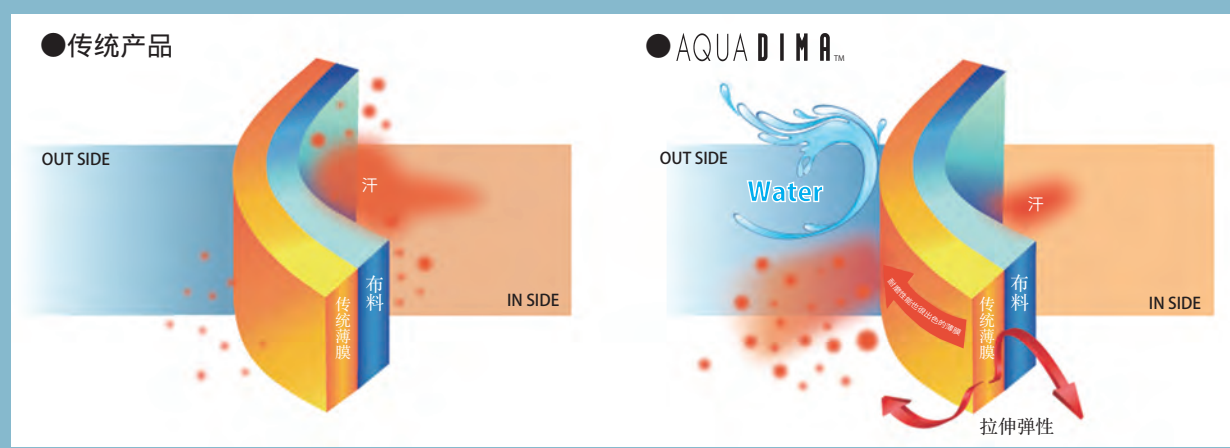


传统产品(左)和 AQUA DIMA(右)的磨损强度对比

— 渗潮性能对比示意图 —

耐水压 10,000mm< (JIS-L-1092 method)

渗潮性 B-1 2000g/m²< (JIS-L-1099 81 method)



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