

# NATURAL FIBER WELDING



## ABOUT

Natural Fiber Welding's (NFW) mentality is "Plants not Plastic™". The company aims to eliminate the use of petrochemicals in the textile industry and **utilise renewable resources** in the natural world. NFW is the creator behind Mirum™, a high-performance plant-based material.

Natural Fiber Welding commits to creating materials that can be "**upcycled**" to eliminate waste and ensure responsible end-of-life options. This means materials must be circular, and if a material cannot make it back to their production facilities, the material must biodegrade.

Furthermore, NFW works to ensure every virgin raw material used in the creation of Mirum™ is just as good for the environment. Materials are **selected based on their nutrient inputs or contribution to the well-being of their local environment**, i.e. encouraging bee propagation, regenerative agriculture, fair trade, and ethical production practices.

Mirum™ is an adaptable material that can be customised for every industry, opening up the material alternatives to designers in every industry.

## SUSTAINABILITY

**LOW CARBON FOOTPRINT:** Mirum™ has a low carbon footprint compared to animal leather or synthetic leather. Animal leather produces between 2 to 12 kg equivalent of CO<sub>2</sub> emissions per kg of animal leather produced. It is also dependent on how animals are farmed, how tanning is achieved, etc. Synthetic polyurethane-based leathers produce approximately 5 kg equivalent of CO<sub>2</sub> emissions per kg of synthetic polymer produced. NFW is producing Mirum™ formulations that require **only 0.2 kg of carbon dioxide equivalent** per meter square of material.

**PLANT-BASED MATERIAL:** Mirum™ requires no tanning and is made from natural polymers and materials (i.e. "waste" cork powder). The composite material is a hybrid of virgin and recycled plant matter. All raw inputs are 100% biodegradable. Finished materials are never coated in polyurethane or PVC.

**LOW IMPACT PROCESSING:** Mirum™ represents the efficiency of plant-based natural resources to produce leather-like materials. Mirum™ does not require water during manufacturing and does not utilise any traditional dyeing techniques (that means no harsh, reactive dye chemicals or water contamination).



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