# Farfalla AERO PLUS

A floating backpack exclusively
designed to protect children's spinal health

# Addressing School Commuting Challenges with Innovative Weight-relief Technology

This product is specifically engineered to alleviate the physical strain caused by overweight backpacks among elementary school students in China, reducing potential risks to spinal health. Based on the developing musculoskeletal structure and body proportions—such as shoulder width and back length—of Chinese children aged **7 to 12**, the backpack's support system has been meticulously crafted to distribute weight more evenly. This significantly reduces shoulder pressure and helps safeguard spinal development.

# Pioneering Farfalla Pressure-distribution Weight-reduction System

The pressure point distribution on the back panel is inspired by the butterfly's wing-spreading posture and based on the principles of bionics. Featuring highly foamed EVA material with superior plasticity and resilience, the back panel conforms to the shoulder-back shapes of primary school students. By effectively adjusting the texture and thickness, a multi-point force-bearing pattern is formed, preventing forward head posture and hunched backs while maintaining spinal alignment to guard against scoliosis. A waist support further shifts weight from the shoulders to the hips. Together, these features achieve a **76%** reduction in shoulder pressure.

# Aerodynamic Grooves for a Fresh, Comfortable Carry

The aerodynamic grooves enable hot air to quickly flow out through the "channels". The breathable mesh fabric decreases the back's stuffiness and increases the comfort of carrying.

# High-performance Protective Fabric for Healthy Growth

• Crafted from durable twill nylon grid fabric and treated with a professional waterproof and stain-resistant coating, the backpack delivers reliable protection for belongings inside while remaining effortlessly easy to maintain.

• Paired with an antibacterial lining, it inhibits bacterial growth and ensures lasting hygiene and safety.

# Embracing Eco-Circular Principles

The product uses GRS-certified recycled polyester fabric, reflecting a strong commitment to sustainability. At the end of its lifecycle, it can be recycled through dedicated recovery systems for ultimate circular renewability.

# Visualized Storage Compartment Design

The product cleverly incorporates a "healing cuteness" concept, featuring a specially designed transparent compartment for children to place their favorite plush toys. This not only meets their emotional needs for companionship but also serves as a social catalyst, fostering connections and emotional sharing among peers.