



Multipurpose Jacket with Thermal Technology

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Group Members :

- 1. Anis Fathiah binti Fazer (2022923557)**
- 2. Izzah Amirah binti Wahir (2022755727)**
- 3. Nur Najihah binti Mohd Sabri (2022905451)**
- 4. Nur Elia Farhana binti Suhaimi (2022978343)**
- 5. Elly Elyanna binti Ramli (2022958677)**
- 6. Ummi Liyana binti Mohd Zaid (2022975059)**
- 7. Raja Noor Shareena binti Raja Fuad (2022755649)**

Submitted to

Madam Mumtaz Binti Ahmad

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1. EXECUTIVE SUMMARY

The multipurpose jacket with thermal technology is a ground-breaking innovation in outerwear, flawlessly combining modern technology and versatile design. The jacket has integrated thermal technology that delivers customizable warmth while adjusting to changing weather conditions. The jacket is designed for motorcycle riders and individuals who have experienced chilly weather. The use of cutting-edge materials provides maximum insulation while remaining lightweight and breathable. The jacket appeals to a wide range of activities, from outdoor experiences to urban commuting, providing customers with a versatile solution for different climates. These versatile jackets feature a sleek and contemporary design that prioritizes usefulness without sacrificing style. The thermal technology incorporated strategically throughout the garment enables users to easily manage their body temperature, resulting in a comfortable and adaptive outerwear experience. Whether battling chilly winds or unexpected temperature variations, these jackets redefine adaptability, thus becoming a must-have wardrobe staple for individuals seeking a perfect balance of design and performance.

2. PRODUCT OR SERVICE DESCRIPTION

2.1. Detail of CozyTech Attire

A multipurpose jacket with innovative heating technology is now in development, specifically for people who rely significantly on motorcycles as their primary source of accessibility. This breakthrough concept is designed to appeal to a broad spectrum of bikers, including those who use Food Panda and Grab Food delivery services. Nonetheless, its popularity extends beyond this niche, making it ideal for residents of chilly, high-altitude regions and those affected by flooding. It stands out for its innovative heating aspect, which can be operated using technology. The jacket includes a Multi-Zone Heating application, which allows customers to program their preferred temperature easily. Furthermore, intelligent fabric technology ensures this jacket is practical and fashionable outdoor clothing. It can detect exterior temperatures and climate conditions.

2.2 Application of CozyTech Attire

CozyTech Attire is designed to meet the unique needs of a vast customer population, providing customizable solutions adapted to individual requirements. Food delivery riders are the primary end-use of this jacket since it navigates various weather conditions. They keep them warm and comfortable throughout their shift. Furthermore, food delivery riders must tolerate varying weather conditions to provide timely and effective service. It includes adjustable heating components precisely positioned to ensure that users are cozy during colder weather. Riders may change temperature settings based on their tastes and the current weather conditions with the help of an easy-to-use interface that controls the heating technology.

In the aftermath of disasters such as floods, heated jackets become crucial for victims, giving vital warmth to avoid cold-related conditions and creating a sense of security in difficult situations. People frequently find themselves in severe need of warmth and safety. This multipurpose jacket, which includes heating technologies and water-resistant textiles, protects wearers from rain and flooding. The heating elements are designed to work in wet environments, providing vital warmth to flood victims subjected to chilly temperatures.

Furthermore, individuals in elevated places with colder weather will benefit significantly from these jackets, as they help to regulate body temperature when subjected to sudden temperature changes, boosting general health and well-being. Heated jackets are adaptable and practical, making them suited for various environmental circumstances and users. The versatile jacket is essential for living in elevated places with cooler weather because it combines heating technology with thermal insulation for maximum heat retention. It becomes crucial in preventing hypothermia among users exposed to cold weather for long periods.

2.3. Unique Features of CozyTech Attire

Categorized as an enhancement to existing products, our multipurpose jacket with thermal technology significantly improves by incorporating a heating feature by integrating a heating pad. This innovation addresses the specific needs of our target market, primarily motorcyclists, by providing warmth during rainy rides. The primary objective of this product is to mitigate hypothermia, a condition that arises when the body loses heat more rapidly than it generates. Additionally, the jacket stabilizes body

temperature and offers comfort, particularly in adverse weather conditions such as rain and floods. First and foremost, the jackets incorporate heating pads made of composite fibers containing flexible elements strategically positioned to distribute heat evenly across crucial areas like the upper back, shoulder, and abdomen. A rechargeable heating pad with a maximum 5-volt output ensures portability and convenience. The pad draws energy from a rechargeable battery pack, prioritizing safety with low voltage while providing ample warmth in cold and damp conditions. Additionally, these jackets are equipped with integrated heating pads, securing electronic components and heating elements to withstand washing, enhancing maintenance ease and long-term usability.

Waterproof jackets, designed to shield wearers from rain and snow, employ waterproof materials like polyester with a water-resistant coating. Engineered for breathability, they prevent water penetration while allowing moisture vapor to escape, striking a balance between waterproofness and breathability. Sealed seams and a durable water-repellent (DWR) coating on the outer layer enhance water resistance, causing water to bead and roll off the fabric. Furthermore, featuring three temperature control settings (high: 50°C - 60°C, medium: 45°C - 55°C, low: 35°C - 45°C), the jackets allow wearers to regulate heat emission according to weather conditions and comfort preferences. Reflective straps on these raincoat jackets serve a dual purpose: enhancing safety by increasing visibility in low light and darkness while providing a stylish design element. These reflective straps, strategically placed on the chest and back, ensure the wearer is more visible to drivers and pedestrians, making the jackets suitable for various outdoor activities. This combination of features seamlessly combines comfort and safety in inclement weather.

2.4. Development of The Product

Multipurpose jackets with thermal technology have been produced to solve the problems riders face today. This goes hand in hand with increasing the number of riders and riders have become one of the working careers for the community today. Therefore, making this jacket was born from our daily observations of motorcyclists. Furthermore, the production of this multipurpose jacket with thermal technology is based on the advancement of technology, by providing features that align with the demands and priorities of today's society that is beginning to be exposed to the use of technology. The aim of this jacket is to provide various features that can provide comfort to the user while still emphasizing the safety features of the jacket specially produced for motorcyclists and those in need.