



Worker Safety

New Honeywell Fibre-Metal Type 2 Climbing Helmet: A Game Changer for Safety and Comfort

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Working at heights is one of the most challenging and risky occupations in the world. Whether you are a construction worker, a utility lineman, a telecom technician, or a wind turbine installer, you must have the best possible protection for your head. That's why Honeywell has developed the new Fibre-Metal Type 2 climbing helmet, a revolutionary product that combines the durability and performance of a hard hat with the comfort and fit of a climbing helmet. It is designated Class E (Electrical), providing dielectric protection up to 20,000 volts.

What is a Type 2 Helmet?

A Type 2 helmet provides protection not only from top impacts, but also from side, front, and rear impacts. This is especially important for workers who are exposed to falling objects, tools, or contact with fixed structures. According to the ANSI/ISEA Z89.1-2014 standard, a Type 2 helmet must have a foam liner that covers the entire inside of the shell, and a retention system that secures the helmet on the head.

Enhanced Safety Features

What makes The Helmet stand out Fibre-Metal Type 2 Climbing Style Safety from the crowd is the suspension technology that distributes impact-generated force evenly throughout the shell. This ensures that the inner shell absorbs the force, reducing the impact on the wearer's head. It's able to provide this enhanced level of safety due to the helmet's foam liner, which features advanced non-Newtonian material embedded in it, providing excellent off-the-crown impact-absorbing performance.

Non-Newtonian describes materials that have variable viscosity depending on a force or stress exerted on it. This viscosity can either increase or decrease depending on the material's specific molecular structure. For instance, ketchup is non-Newtonian because it becomes more viscous when shaken. When there is a large impact, the molecules in the material bond together and form a firm surface. It also transforms mechanical energy into heat energy, and thus only a fraction of the impact force is transferred to the user.

The knitted suspension strap with liquid crystal polymer (LCP) inlay yarns provides leading impact-absorbing performance. LCP yarns deliver two key benefits: dispersion of force transferred from the shell to the user and serving as a visual indicator to determine if a helmet/suspension has experienced a significant impact event. LCP yarns have much more stable performance in high and low temperatures (-50 to 100°C) which ensure the helmet protection level always keeps the same performance in harsh environments.

Benefits and Safety Features

The Honeywell Fibre-Metal Type 2 climbing helmet is designed to meet the needs of workers who perform tasks at heights, such as climbing, rappelling, or rescue operations. Some of the features and benefits of this helmet include:

- A lightweight and durable shell made of fiberglass and resin, which resists cracking, chipping, and fading.
- A patented SuperEight suspension system, which distributes the impact force over a large area and reduces the risk of head injury.
- A ratchet headband, which allows for easy and precise adjustment of the helmet size and fit.
- A replaceable sweatband, which absorbs moisture and enhances comfort.
- A visor slot that may accommodate a variety of accessories, such as face shields, goggles, or earmuffs.
- A vented option, which improves air circulation and reduces heat buildup.
- A reflective strip, which increases visibility and safety in low-light conditions.
- A choice of colors: white, yellow, orange, red, blue, green, or hydrographic, which can be used to identify different roles or teams.

Industries and Applications

The Honeywell Fibre-Metal Type 2 climbing helmet is suitable for a wide range of industries and applications, such as:

- **Construction:** It can help protect workers from falling debris, tools, or materials, as well as from contact with electrical wires or equipment.
- **Utilities:** It can help protect workers from electrocution, arc flashes, or burns, as well as from impacts from poles, wires, or branches.
- **Telecommunications:** It can help protect workers from head injuries caused by antennas, cables, or towers, as well as from exposure to high-frequency radiation.
- **Wind Energy:** It can help protect workers from wind gusts, blade strikes, or turbine malfunctions, as well as from extreme temperatures and heights.
- **Emergency Services:** It can help protect workers from fire, smoke, or explosions, as well as from collisions with vehicles, buildings, or other objects.

Conclusion

The Honeywell Fibre-Metal Type 2 climbing helmet is a game changer for safety and comfort for workers who work at heights. It offers superior protection from multiple hazards, as well as enhanced comfort and fit. It is also compatible with various accessories, which can improve the functionality and versatility of the helmet. If you are looking for a helmet that can help keep you safe and comfortable while working at heights, look no further than the Honeywell Fibre-Metal Type 2 climbing helmet. To learn more,

visit <https://sps.honeywell.com/us/en/products/safety/head-eye-and-face-protection/hard-hats/fibre-metal>

-climbing-style-helmet or contact your local Honeywell distributor.

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