

Flame Retardant Polyurethane Wheels

Title	Flame Retardant Polyurethane Wheels
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Description

In the modern industrial landscape, safety and durability are the two core dimensions across many sectors, ranging from specialized components to a standard configuration.



What is a Flame Retardant Polyurethane Wheel?

Flame retardant polyurethane wheels are engineered from specially formulated polyurethane, acting as fuel for fire spread. Ceases to burn immediately, preventing the material from

Core Technical Advantages

1. Superior Fire Safety (UL 94 V-0 Standard)

High-performance flame retardant wheels typically comply with the UL 94 V-0 standard. This layer of security is vital in confined spaces of warehouses storing flammable goods.

2. Intumescent Char Protection Mechanism

When exposed to high temperatures or open flames, this specialized polyurethane reacts and firefighting release, smoke density, and toxicity, buying critical time for evacuation.

3. Preservation of Mechanical Properties

The classic mechanical advantages of polyurethane enhance fire safety while retaining

~~High Load-Bearing Capacity: Capable of supporting several tons of static and dynamic~~

~~Shock Absorption: Resistance to impact and vibration, reducing the risk of damage to~~

~~Vibration and Prevents Damage to Facility Infrastructure: The porous nature of the material effectively absorbs~~

Key Application Scenarios

Automated Warehousing & AGV/AMR Robotics

In 24/7 automated logistics centers, lithium battery-powered robots (AGV/AMR) are a non-sparking alternative to traditional power equipment.

Mining & Underground Facilities

Underground environments demand extreme compliance regarding flame retardancy and chemical exposures while eliminating the hazards of electrical equipment.

Aerospace & Rail Transit

Whether for aircraft engine components or rail maintenance, Flameret[®] materials are the essential entry ticket for components in these sectors.

Conclusion

A flame retardant industry that is more than just a public component, it is a world's most demanding work environments provides a reliable mobility solution for the

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