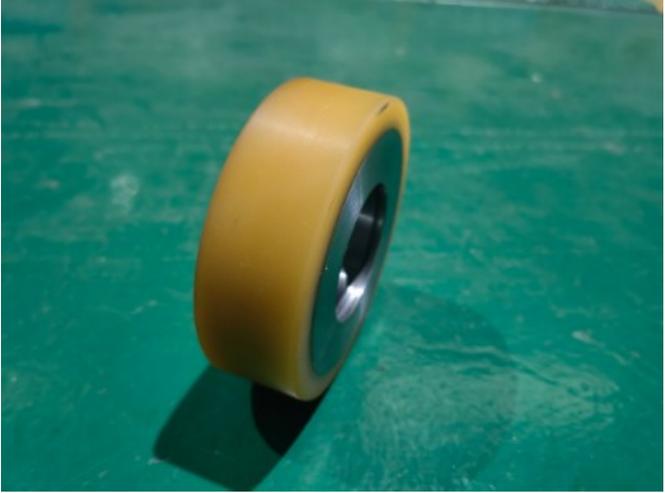

Vulkollan Polyurethane Wheels

Title	Vulkollan Polyurethane Wheels
Thumb	
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Description

As the industry gold standard for high-performance polyurethane elastomers, Vulkollan is engineered specifically for the most demanding industrial environments. Processed through a hot-casting method, it is designed to deliver exceptional mechanical properties and dynamic stability for heavy-duty and high-speed mobile equipment.



Core Technical Advantages

Dynamic Load Capacity: It maintains the highest load-bearing capacity of nearly all elastomers, making it ideal for high-speed AGVs (Automated Guided Vehicles) and heavy-duty forklifts.

Low Rolling Resistance: It has a very low hysteresis loss (heat buildup), which significantly reduces energy consumption and prevents the wheel from deforming under constant motion.

Superior Mechanical Strength:

Tear Resistance: Highly resistant to "chunking" or tearing when rolling over metal shavings or debris.

Abrasion Resistance: Outlasts standard polyurethanes in high-friction environments.

Temperature Stability: It maintains its mechanical properties across a wide thermal range, typically from -20°C to +80°C.

Common Applications

Industry	Application
Intralogistics	Trucks and stackers, load rollers for reach trucks and pallet trucks
Material Handling	and transport systems, industrial cranes
Amusement Parks	high dissipation for roller coasters due to heat dissipation
Automation	Systems and robotics, high-speed sorting

Technical Comparison: Vulkollan vs. Standard PU

While standard MDI or TDI-based polyurethanes are suitable for general use, Vulkollan is usually required when:

1. Speeds exceed 10 km/h.
2. Continuous duty cycles are required (minimal cooling time).
3. High static loads are present.