
Chemical Resistant Polyurethane Guide Wheels

Title	Chemical Resistant Polyurethane Guide Wheels
Thumb	
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Description

Chemical Resistant Polyurethane Guide Wheels are precision-engineered to thrive where standard wheels fail. By utilizing advanced material formulations—including high-performance polyester and specialized polyether-based polyurethane—these wheels maintain their structural integrity and physical stability even when submerged in or exposed to aggressive chemicals, solvents, acids, and oils. Our technology effectively eliminates common failure points like swelling, softening, and premature degradation.



Technical Specifications & Classifications

1. Hardness Grades & Physical Characteristics

Polyurethane hardness directly influences chemical permeability resistance and rolling efficiency.

Hardness Grade (Shore)	Physical Performance	
75A - 85A	High elasticity, noise reduction, and superior floor grip.	
90A - 95A	Industry Standard; optimal balance of wear resistance and shock absorption.	
98A / 55D	Minimal rolling resistance, ultra-high load capacity, and peak chemical shielding.	

2. Core Materials & Environmental Compatibility

The selection of the wheel core (hub) determines the overall lifespan of the assembly when exposed to specific corrosive media.

Core Material
Stainless Steel (304/316)
Reinforced Nylon
Coated Steel / Cast Iron

Versatile Industrial Applications

Where do our chemical-resistant guide wheels excel?

1. Pharmaceutical & Labs: Withstanding frequent sterilization with alcohols and aggressive disinfectants.
2. Electroplating & Chemical Plants: Navigating floors frequently exposed to acid, alkali, or salt-heavy spills.
3. Food & Beverage Processing: Enduring animal fats, vegetable oils, and high-pressure hot water cleaning.
4. Semiconductor & Cleanrooms: Meeting strict outgassing standards while resisting specialized cleaning agents.

Ready to Upgrade Your Equipment?

Don't let chemical corrosion halt your production. Contact our engineering team today to

design a Chemical Resistant Polyurethane Guide Wheel system tailored to your facility.

Let Us Design Your Wheel System