

Tire Material Quick Selection Guide

To determine what tire would best suit your application, calculate a total for the values that correlate with your needs. Our designs meet and exceed standards for class I, II, and III material handling vehicles and are available in all sizes, profiles, and tread treatments. This is a great way to get an idea of where your needs fall. If you are surprised by the material identified, refer to the back of the sheet to see how your needs compare to the material breakdown.

| Application Requirements | | | | |
|---|---------------------------------------|-------------------------------------|---|--|
| Load Capacity Requirements <small>(Please estimate based on your knowledge - loads vary for each tire size)</small> | Low | Average | High | Extreme |
| | 1 | 2 | 3 | 4 |
| _____ | | | | |
| Speed Requirements | Low <small>(1 mph or less)</small> | Average <small>(2-3 mph)</small> | High <small>(4-6 mph)</small> | Extreme <small>(7-9 mph)</small> |
| | 1 | 2 | 3 | 4 |
| _____ | | | | |
| Environmental Conditions | | | | |
| Presence of moisture | | | Damp or icy environment | Dry environment |
| | | | 1 | 2 |
| _____ | | | | |
| Flooring quality | Spotless, smooth floors | | Average imperfections <small>(floor joints, some debris)</small> | Rough floors <small>(dock plates, rough joints)</small> |
| | 1 | | 2 | 3 |
| _____ | | | | |
| Temperature | Cold storage | | Normal room temperature | Hot conditions |
| | 1 | | 2 | 3 |
| _____ | | | | |
| Presence of other tough substances | | | None present | Presence of oil or chemicals |
| | | | 1 | 2 |
| _____ | | | | |
| Your Total: _____ | | | | |

| | | | | | |
|--|--|--|--|---|--|
| 6-9 Tmax This 70A durometer material is ideal for damp, cold storage and provides excellent traction | 10-13 Lmax This 85A durometer material excels under most long run, high speed and load applications | 11-13 Max90 This 90A material carries high loads at high speeds , while providing notable safety and comfort | 11-13 Smoothy90 A similar material to the max90 built with zero TIR technology, it is our smoothest ride making it ideal for high reach trucks and order pickers | 12-15 Vmax This 93A material tolerates ultra high loads and speeds while offering unparalleled cut, tear and chemical resistance | 14-15 Gmax This 95A material handles the roughest flooring conditions with ease and carries the load without chunking and tearing |
| Specific Environments | General Applications | More Demanding Load Requirements | | Extreme Applications | |



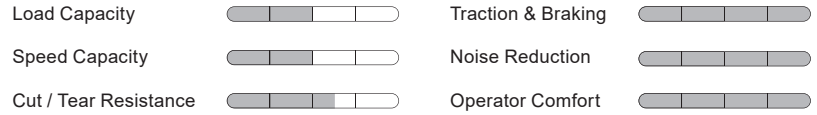
It is important to note that there is always a trade off with polyurethane tires. Harder materials have higher load capacities, but reduce the comfort and safety properties you find in a softer material. Take a look at our material breakdown on the back for a different take on selecting a material.

Material Breakdown

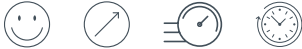
Tmax



The Tmax™ provides excellent traction, especially in cold, damp settings. This 70A durometer material is soft enough to excel where both rubber and standard polyurethane tires are not right for the application. Even being our softest materials, this tire won't chunk, tear, dry out, or load up with debris, but does experience load capacity limitations when compared to our harder materials.



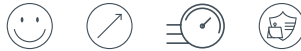
Lmax



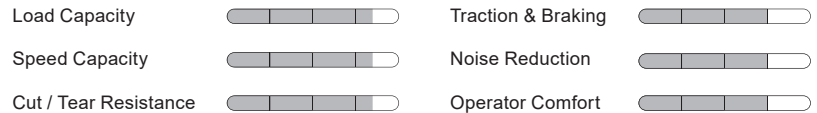
The Lmax™ provides great traction and comfort while accommodating greater load capacities than softer materials. This 85A durometer material has been engineered to excel under a wide application range. With a tolerance for high speed, high load, and long runs, you can run your equipment as it was intended to run. Carry higher loads during more continuous operation while experiencing excellent traction, braking, and comfort.



Max90



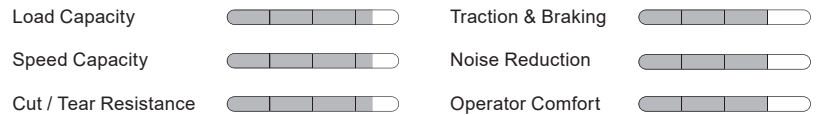
The max90™ tire was engineered to maximize your equipment's performance and your operator's safety and comfort. Being a 90A durometer material, the load capacity accommodates very demanding loads without compromising too much on the safety and traction that is characteristic of a softer material.



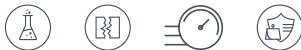
Smoothy90



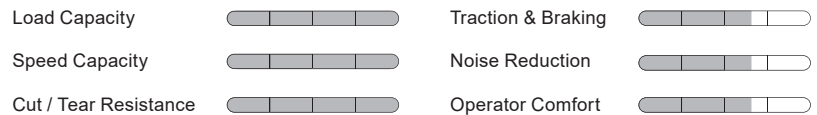
The Smoothy™ tire offers the same benefits of the max90™ and those of using zero total indicator run-out (TIR) technology. Our engineering and manufacturing processes provide uniformity in roundness that is maintained even after being pressed onto the hub. This means you get a smoother, safer, and a more energy-efficient ride ideal for tackling the increasing heights and accuracy requirements within your reach truck and picker applications.



Vmax



The Vmax™ is a 93A durometer material designed to set the standard for toughness. Stellana's Vmax™ tire delivers performance characteristics that are similar to those in Vulkollan®. Engineered for ultra-high loads at high speeds, this tire does not compromise on a smooth ride. The unique formulation provides unparalleled cut, tear, and chemical resistance to deliver in longevity and performance.



Gmax



The Gmax™ is a 95A durometer material that delivers the toughness you need across a wide range of applications. This tire provides excellent resistance to chunking, tearing and flat-spotting to tackle rough floors, dock plates, expansion joints, and floor debris. Being our hardest tire material, heavy loads are a breeze, but it is important to realize comfort, braking and traction characteristics lessen as the durometer increases.



Key

