

CADEX

THE CADEX
TIRE TEST PROTOCOL


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If the maximum pressure indicated on the sidewall of the tire is above 72.5psi (5 bar) and **the tire is hookless rim compatible as per the tire manufacturer's recommendation**, then the tire enters into the CADEX test protocol. This will ensure it functions properly with CADEX Hookless WheelSystems. If the tire passes the protocol it will be listed on the "WHAT TIRES CAN I USE?" chart.

The CADEX test protocol consists of two tests:

HIGH PRESSURE TOLERANCE TEST

First, the tire is inflated to 72.5 psi (5 bar), an average minimum pressure for most riders on 25c tires, and must withstand this pressure for 24 hours without blowing off. Next, the tire is inflated to its recommended maximum pressure and must withstand this pressure for 24 hours without blowing off. After that, the tire is inflated to 1.2 times the recommended maximum pressure and must withstand this pressure for 24 hours without blowing off. Finally, the tire is inflated to 1.5 times the recommended maximum pressure and must withstand this pressure for 24 hours without blowing off. The final number of 1.5 times the recommended maximum pressure is intended to simulate such extreme conditions as hitting a square edge or a pothole at high speed causing the tire pressure to increase suddenly. If the tire has been able to withstand the four pressures for 24 hours respectively without blowing off, it passes the CADEX high pressure tolerance test.

 **For your own safety, please do not inflate the tire over the recommended maximum pressure or attempt to replicate this test.**

HIGH PRESSURE BRAKING TEST

The tire is inflated to 1.2 times the recommended maximum pressure, mounted on a disc brake wheel and must withstand braking forces without blowing off or experiencing a shift in position of more than 3mm. This test is used to simulate accidental high-speed uncontrolled braking causing excessive friction between road and tire and possible movement of the tire on the rim resulting in blow-off.


 **For your own safety, please do not inflate the tire over the recommended maximum pressure or attempt to replicate this test.**

NOTE: If the maximum pressure indicated on the sidewall of the tire is below 72.5psi (5 bar) **and the tire is hookless rim compatible as per the tire manufacturer's recommendation**, the tire can be used with CADEX hookless WheelSystems and does not have to appear on the "WHAT TIRES CAN I USE?" chart.

CADEX & GIANT TIRES TEST RESULTS

Please consult the table below for the test results of CADEX and Giant tires on CADEX hookless rims:

| Brand & Model | Tire Size (700C) | High Pressure Braking Test | High Pressure Tolerance Test | | | |
|-------------------------------|------------------|----------------------------|------------------------------|----------------------|-----------------------|-----------------------|
| | | | 72.5 psi (5 bar)* | Max Pressure x 1.0** | Max Pressure x 1.2*** | Max Pressure x1.5**** |
| CADEX RACE TUBELESS | 23c | | | | | |
| | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA COURSE 0 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA COURSE 1 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA FONDO 0 TUBELESS | 28c | PASS | PASS | PASS | PASS | PASS |
| | 32c | | | | | |
| GIANT GAVIA FONDO 1 TUBELESS | 28c | PASS | PASS | PASS | PASS | PASS |
| | 32c | | | | | |
| GIANT GAVIA RACE 0 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA RACE 1 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA AC 0 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |
| GIANT GAVIA AC 1 TUBELESS | 25c | PASS | PASS | PASS | PASS | PASS |
| | 28c | | | | | |

 **For your own safety, never inflate tires over the recommended maximum pressure or attempt to replicate tests.**

* The tire is inflated to 72.5psi (5 bar) and must stand for 24 hours without blowing off

** The tire is inflated to the recommended maximum pressure and must stand for 24 hours without blowing off

*** The tire is inflated to 1.2 times the recommended maximum pressure and must stand for 24 hours without blowing off

**** The tire is inflated to 1.5 times the recommended maximum pressure and must stand for 24 hours without blowing off

OTHER BRAND TIRES TEST RESULTS

Although CADEX components are designed to be used as a system and CADEX tires are the best choice for use with CADEX wheels, other tire options are possible. Please consult the table below for other brand tires that passed the CADEX test protocol for use with CADEX hookless rims:

| Brand & Model | Tire Size (700C) | High Pressure Braking Test | High Pressure Tolerance Test | | | |
|--------------------|------------------|----------------------------|------------------------------|----------------------|-----------------------|-----------------------|
| | | | 72.5 psi (5 bar)* | Max Pressure x 1.0** | Max Pressure x 1.2*** | Max Pressure x1.5**** |
| SCHWALBE PRO ONE | 25C | PASS | PASS | PASS | PASS | PASS |
| SCHWALBE PRO ONE | 28C | PASS | PASS | PASS | PASS | PASS |
| SCHWALBE PRO ONE | 30C | PASS | PASS | PASS | PASS | PASS |
| MAXXIS HIGH ROAD | 25C | PASS | PASS | PASS | PASS | PASS |
| MAXXIS HIGH ROAD | 28C | PASS | PASS | PASS | PASS | PASS |
| MAXXIS ALL TERRANE | 33C | PASS | PASS | PASS | PASS | PASS |

⚠ For your own safety, never inflate tires over the recommended maximum pressure or attempt to replicate tests.

All tests are performed on the samples received from the respective tire brands. Because tolerances among mass produced tires can vary, test results cannot 100% represent the results of all production tires.

Test results only show the outcome of the CADEX tests, they do not reflect the tire's performance or quality.

Production batch numbers of tested tire samples:

- Schwalbe Pro One:
 - 25C & 30C: 611-RC38-08010105C05
 - 28C: 611-RC38-07069104C58
- Maxxis High Road:
 - 25C: 060206599-15218
 - 28C: 100202074-18218
- Maxxis All Terrane
 - 271299-623
- Maxxis Velocita AR
 - 041199801

* The tire is inflated to 72.5 psi (5 bar) and must stand for 24 hours without blowing off

** The tire is inflated to the recommended maximum pressure and must stand for 24 hours without blowing off

*** The tire is inflated to 1.2 times the recommended maximum pressure and must stand for 24 hours without blowing off

TEST RESULTS FOR TIRES THAT DID NOT PASS THE CADEX TEST PROTOCOL

Please consult the table below for the results of tires that failed the CADEX test protocol:

| Brand & Model | Tire Size (700C) | Result |
|-------------------------|------------------|--------|
| VITTORIA RUBINO PRO TLR | 25C | FAIL |
| VITTORIA CORSA TLR | 25C | FAIL |
| CONTINENTAL GP5000 TL | 25C | FAIL |
| PIRELLI CINTURATO | 24mm | FAIL |
| PIRELLI CINTURATO | 26mm | FAIL |

- The tires in this table all failed one or more of the tests in the CADEX test protocol.
- CADEX is working with the brands of the tires listed in this table so that updates can be made to ensure future readiness for use with CADEX hookless rims.

Production batch numbers of tested tire samples:

- Vittoria Rubino TLR:
382908191-5925622
- Vittoria Corsa TLR:
46080719-190619-5515
- Continental GP5000 TL:
Not Available
- Pirelli CINTURATO:
24C: 1191NRM1-090519/104251
26C: 1191/040208/014854/NRM1

#OVERACHIEVE

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