



CADEX TIRE TEST PROTOCOL User Manual

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THE CADEX TIRE TEST PROTOCOL

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:

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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 the 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 x 1.0
CADEX CLASSICS TUBELESS	25C, 28C, 32C	PASS	PASS	PAS
CADEX RACE TUBELESS	23C, 25C, 28C	PASS	PASS	PAS
GIANT GAVIA COURSE 0 TUBELESS	25C, 28C	PASS	PASS	PAS
GIANT GAVIA COURSE 1 TUBELESS	25C, 28C	PASS	PASS	PAS
GIANT GAVIA FONDO 0 TUBELESS	28C, 32C	PASS	PASS	PAS
GIANT GAVIA FONDO 1 TUBELESS	28C, 32C	PASS	PASS	PAS
GIANT GAVIA RACE 0 TUBELESS	25C, 28C	PASS	PASS	PAS
GIANT GAVIA RACE 1 TUBELESS	25C, 28C	PASS	PASS	PAS
GIANT GAVIA AC 0 TUBELESS	25C, 28C	PASS	PASS	PAS
GIANT GAVIA AC 1 TUBELESS	25C, 28C	PASS	PASS	PAS



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 x 1.5****
SCHWALBE PRO ONE TLE	25C	PASS	PASS	PASS	PASS	PASS
SCHWALBE PRO ONE TLE	28C	PASS	PASS	PASS	PASS	PASS
SCHWALBE PRO ONE TLE	30C	PASS	PASS	PASS	PASS	PASS
SCHWALBE ONE	25C	PASS	PASS	PASS	PASS	PASS
SCHWALBE ONE	30C	PASS	PASS	PASS	PASS	PASS
MAXXIS HIGH ROAD TR	25C	PASS	PASS	PASS	PASS	PASS
MAXXIS HIGH ROAD TR	28C	PASS	PASS	PASS	PASS	PASS
MAXXIS ALL TERRANE TR	33C	PASS	PASS	PASS	PASS	PASS
MAXXIS VELOCITA AR TR	40C	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 TLE:
25C & 30C: 611-RC38-08010105C05
28C: 611-RC38-07069104C58
- Schwalbe One:
25C: 30089312B.4

30C: 611-RC38-08010105C05

- Maxxis High Road TR:
25C: 060206599-15218
28C: 100202074-18218
- Maxxis All Terrane TR
271299-623
- Maxxis Velocita AR TR
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

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

TEST RESULTS FOR TIRES THAT DID NOT PASS THE CADIX 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
PIRELLI P ZERO RACE TLR SL	24mm	FAIL
PIRELLI P ZERO RACE TLR SL	26mm	FAIL
PIRELLI P ZERO RACE TLR	24mm	FAIL
PIRELLI P ZERO RACE TLR	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

- **Pirelli P Zero Race TLR SL:**
24C & 26C
- **Pirelli P Zero Race TLR:**
24C & 26C

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[CADEX-CYCLING.COM](https://cadel-cycling.com)

Documents / Resources



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References

- [CADEX - The Pursuit of Pinnacle Product | Official site](#)
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