



2023

# BMW 2 Series Active Tourer

220i e85 FWD automatic



6.2   
/10

Clean Air  
Index

5.0   
/10

Energy Efficiency  
Index

3.6   
/10

Greenhouse Gas  
Index



## Laboratory Test

NMHC

NO<sub>x</sub>

NH<sub>3</sub>

CO

PN

5.2/10 Cold Test



6.3/10 Warm Test



6.4/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



## Road Test

7.3/10 On-Road Drive



3.0/5 On-Road Short Trip



On-Road Heavy Load

Does not qualify for additional robustness testing

On-Road Light Load

Does not qualify for additional robustness testing

Congestion

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

### Comments

The BMW 220i Active Tourer scores above average in this part of the assessment. The exhaust aftertreatment is challenged by the high output of the unregulated ammonia (NH<sub>3</sub>) emissions. Particle emissions levels are robustly controlled under all test conditions and always remain far below the set upper thresholds. The same observation is true for the CO output. The on-road performance confirms the lab findings. NO<sub>x</sub> emissions are generally very low and help keep a creditable Clean Air Index result of 6.2 points.

# Energy Efficiency Tests



## Laboratory Test

## Energy

**5.6/10** Cold Test



**5.7/10** Warm Test



**3.9/10** Highway



Cold Ambient Test

Does not qualify for additional robustness testing

## Consumption

## Driving Range

**Average**

**6.3** l/100 km

**721** km

**Worst-case**

**7.3** l/100 km

**617** km



n.a.



good



adequate



marginal



weak



poor

## Comments

The Active Tourer requires about 5.8 litres of petrol for 100 km in the standard Warm and Cold WLTC+ tests in the lab. The challenging Highway driving test BAB130 pushes consumption to 7.3 l/100 km. A standard On-Road Drive can be performed with 5.5 l/100 km and the measured figure in the 8 km Short Urban Trip after a cold powertrain start is 6.6 l/100 km. Generally, the mild-hybrid BMW demonstrates good consumption results given the relatively powerful petrol engine. The measured figures match the declared ones and in real-world driving even lower values can be achieved.

# 3.6 Greenhouse Gases Tests

/10



## Greenhouse gases

CO<sub>2</sub>

N<sub>2</sub>O

CH<sub>4</sub>

4.3/10 Cold Test



4.5/10 Warm Test



2.0/10 Highway



Cold Ambient Test

Does not qualify for additional robustness testing



n.a.



good



adequate



marginal



weak



poor

### Comments

The Greenhouse Gas Index is based on a Well-to-Wheel+ approach, meaning that the greenhouse gas emissions related to the supply of energy are added to the tailpipe emissions. In the WLTC+ Lab Tests, about 131 g CO<sub>2</sub>/km are measured at the tailpipe. With the addition of some 34 g CO<sub>2</sub>-eq./km from petrol production and supply, and the CO<sub>2</sub>-equivalent values for methane and laughing gas, the total CO<sub>2</sub>-equivalent emissions rise to approx. 166 g/km. In the Highway Test the total figure is 207 g CO<sub>2</sub>-eq./km, due to higher fuel consumption. Laughing gas and methane are almost non-existent in all tests.

## Our Verdict

The BMW 220i Active Tourer enters the test with a petrol engine supported by a 48V mild-hybrid system. This compact car targets those putting focus on practicality without wishing to sacrifice dynamic agility. Its overall performance is creditable, just below the threshold for additional robustness testing. In the Clean Air Index, the 220i Active Tourer demonstrates robust exhaust aftertreatment behaviour but ammonia output is increased. The car receives half of the possible points in the Energy Efficiency Index and presents generally good consumption values. Further decreasing the thirst for petrol, however, would reduce the CO<sub>2</sub> emissions and improve the Greenhouse Gas Index. Here, the output of the aggressive climate damaging gases methane and laughing gas (N<sub>2</sub>O) is very low, but the addition of the emissions from petrol production and supply to the tailpipe CO<sub>2</sub> emissions results in just 3.6 points for that index. With a Weighted Overall Index of 4.9, the BMW 220i Active Tourer reaches 2½ Green Stars and narrowly misses a higher result.

## Disclaimer [↗](#)

## Specifications

Publication Date	Tested Car	Tyres	Emissions Class
02 2023	WBA71BX0407L0xxxx	205/60 R17	Euro 6d AP
Mass	Engine Size	Power/Torque	Declared CO <sub>2</sub>
1,543 kg	1,499 cc	125 kW/280 Nm	135 g/km
Declared Battery Capacity	Declared Driving Range	Declared Consumption	
0.92 kWh	n.a.	5.9l/100 km	



Think before you print