

smart #3

PRO+ ELECTRIC RWD AUTOMATIC

2024



95%



10.0 
/10

**Clean Air
Index**

9.2 
/10

**Energy Efficiency
Index**

9.4 
/10

**Greenhouse Gas
Index**

10.0
/10



Clean Air Tests



Laboratory Test

NMHC

NO_x

NH₃

CO

PN

10.0/10 Cold Test



10.0/10 Warm Test



10.0/10 Highway



10.0/10 Cold Ambient Test



Road Test

10.0/10 On-Road Drive



5.0/5 On-Road Short Trip



8.0/8 On-Road Heavy Load



5.0/5 On-Road Light Load



2.0/2 Congestion



n.a.



good



adequate



marginal



weak



poor

Comments



With no tailpipe emissions, the electric smart #3 naturally scores the full 10 points in the Clean Air part of the assessment.

Energy Efficiency Tests



Laboratory Test

Energy

10.0/10	Cold Test		→	19.8 kWh/100 km
10.0/10	Warm Test		→	18.9 kWh/100 km
8.9/10	Highway		→	27.7 kWh/100 km
8.1/10	Cold Ambient Test		→	33.5 kWh/100 km

Consumption

Driving Range

Average	22.1 kWh/100 km	359 km
Worst-case	33.5 kWh/100 km	230 km



n.a.



good



adequate



marginal



weak



poor

Comments

The smart #3 shows low consumption in the Cold and Warm Laboratory Tests – ca. 19 kWh/100 km from the charging socket. In the Highway cycle, the electric SUV uses significantly more – 27.7 kWh/100 km, corresponding to a range of 279 km. The On-Road Drive was performed at around 15°C and the smart needed about 21 kWh/100 km, leading to a range of around 369 km. The compact SUV shows average energy demand in the -7°C Cold Ambient Test – 33.5 kWh/100 km.

9.4

/10

Greenhouse Gases Tests



Greenhouse gases

CO₂

N₂O

CH₄

10.0/10 Cold Test



10.0/10 Warm Test



9.4/10 Highway



8.5/10 Cold Ambient Test



n.a.



good



adequate



marginal



weak



poor

Comments

This Index is based on a Well-to-Wheel+ approach, meaning that the GHG emissions related to the supply of the energy are added to those of the tailpipe. The vehicle's production is not yet included in the assessment due to the implicit limitations of generic data about global supply chains. As the smart #3 is purely electric, its GHG emissions originate only from electricity supply – ca. 53-95 g CO₂-eq./km, depending on the test consumption.

Our Verdict

The new smart vehicles which are manufactured in China are newcomers to the European market and arrive with a range of attractive electric models in the compact and subcompact segment. Tested here is the smart #3 – a compact SUV with a maximum power of 200 kW and a declared battery capacity of 65 kWh. The mass of the empty vehicle is 1.780 kg. The measured test consumption values are creditable and the vehicle shows good comfort for the passengers in cold and warm environment in its default “comfort” driving mode. A PTC-heater is used for cabin heating, while better-equipped variants come with an additional heat pump. For the battery capacity test the vehicle was charged with 11 kW charging power. With 68.2 kWh, the measured usable battery capacity surpasses the declared figure of 65 kWh, and it should be noted that the manufacturer states the available battery capacity depends on the charging speed. A full battery recharge takes 77.2 kWh from the electricity grid, which results in a reasonable grid-to-battery output efficiency of 88.4 %. Overall, the smart #3 finishes with an Average Score of 95%, easily collects all 5 Green Stars and challenges the popular EV brands in the European market.

Disclaimer [↗](#)

Specification

Tested Car

HESCR1C43PS15xxxx

Publication Date 02 2024	Vehicle Class Small Family Car	Tyres 245/45 R19	Emissions Class Euro 6 AX
Mass 1,780 kg	Engine Size n.a.	System Power/Torque 200 kW/343 Nm	Declared CO₂ n.a.
Declared Battery Capacity 65.0 kWh	Declared Driving Range Overall 435 km City 601 km	Declared Consumption 16.8 kWh/100 km	
Heating Concept PTC			



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