

05 October 2010

Association of Automobile Importers in Finland (Autotuoja ry)

COMPATIBILITY OF E10 PETROL WITH VARIOUS PASSENGER VEHICLES

Content

Purpose of the compatibility listing	2
Alfa Romeo	3
Audi	3
BMW	3
Chrysler	3
Citroen	3
Dacia	3
Dodge	3
Fiat	3
Ford	4
GM, American cars	4
Honda	4
Hyundai	4
Jaguar	4
Jeep	4
Kia	4
Lada	4
Lancia	4
Land-Rover	4
Lexus	4
Maybach	5
Mazda	5
Mercedes-Benz	5
Mini	5
Mitsubishi	5
Nissan	5
Opel	6
Peugeot	6
Renault	6
Saab	6
Seat	6
Škoda	6
Smart	6
Subaru	6
Suzuki	7
Toyota	7
Volkswagen	7
Volvo	7
Data from sources other than the Association of Automobile Importers in Finland (Autotuoja ry)	8
Porsche	8

Purpose of the compatibility listing

This is an overview of the compatibility of E10 petrol with various vehicle models. The E10 petrol blend contains up to 10% v/v ethanol. This guide is based on data provided by the members of the Association of Automobile Importers in Finland (Autotuojat ry) concerning the vehicles they import to Finland. The following table summarizes the vehicles which are known to be compatible with E10 petrol as their primary fuel in continuous use.

Compatibility data received from other sources has been added at the end of the listing.

It is important to note that the compatibility of a petrol with a vehicle depends both on its octane rating and its ethanol concentration. The vehicle's octane requirement must be met and the petrol's ethanol concentration may not exceed the compatibility limit. The E10 petrol to be introduced on the Finnish markets will be mostly supplied with an octane rating of 95 and be labelled 95 E10. 98 E5 petrol will be available for the vehicles that are not compatible with the E10 petrol. It is possible that other quality combinations may additionally be available.

The E10 compatibility of a vehicle is in this listing not predefined on the basis of the octane rating. If your vehicle's octane requirement is higher than 95, you must make sure before refuelling E10 that its octane rating is high enough.

A basic prerequisite for E10 compatibility is, however, that all fuel system parts of the vehicle are of original or corresponding quality.

Data is not available on the E10 compatibility of all vehicle makes and models that are included in the Finnish car stock, on old, discontinued models, in particular.

The general rule is that E10 should not be used in these vehicles. The same rule naturally applies to all vehicles listed as non-compatible with E10.

If uncertainty exists concerning the suitability of E10 petrol with a particular car make or model, motorists are urged to turn to the relevant authorized car dealer in the first instance, or to the importer – as the secondary option – for further advice.

This listing is published online, and will be updated as new data becomes available on E10 petrol suitability for vehicles presently not included in this overview.

Alfa Romeo

E10 is cleared for use in the following Alfa Romeo models:

- MiTo
- 159: 1.8 16V, 1.8 TBi 16V, 3.2 JTS V6
- Brera: 1.8 TBi 16V, 3.2 JTS V6
- Spider: 1.8 TBi 16V, 3.2 JTS V6
- 8C: 4.7 32V

Audi

E10 petrol is cleared for use in all petrol driven vehicles of model year 1992 and later, excluding the following:

- Audi A2 1.6 FSI 2002-2006
- Audi A3 1.6 FSI 2001-2004
- Audi A3 2.0 FSI 2001-2004
- Audi A4 2.0 FSI 2001-2004
- Audi A4 petrol engine models with OEM parking heater, of model years 2000-2007. E10 is not suitable for use during the heating season.

BMW

All petrol engine BMW models are cleared for the use of E10 petrol regardless of their year of manufacture unless the owner's manual specifies the use of Super Plus (98 octane) fuel only. Chevrolet and Daewoo

E10 petrol is cleared for use in all Chevrolet and Daewoo models starting from model year 2003.

Chrysler

E10 is cleared for all Chrysler models starting from model year 1989.

Citroen

E10 is cleared for use in all gasoline engine Citroen models manufactured in 2000 or later.

Dacia

E10 is cleared for use in all petrol driven Dacia vehicles.

Dodge

E10 is cleared for use in all Dodge vehicles starting from model year 1989.

Fiat

E10 petrol is cleared for all Fiat vehicles of Euro 3 emission levels or newer, starting from model year 2000, except the following:

- Barchetta: 1.8 16V
- Bravo/Brava (182): 1.6 16V
- Doblò: 1.6 16V
- Marea: 1.6 16V, 2.0 16V
- Multipla: 1.6 16V
- Palio: 1.6 16V
- Punto (188): 1.8 16V
- Stilo: 1.6 16V (1.596 cm³), 1.8 16V, 2.4 20V

Ford

E10 is cleared for use in all petrol driven Ford models manufactured in Europe since 1992 excluding Ford Mondeo 1.8 SCi (96 kW, 130 hp) of which model a total of 1032 vehicles were manufactured in years 2004–2006.

GM, American cars

E10 is cleared for use in all petrol driven General Motors (GM) passenger car models and light commercial vehicles manufactured in the United States in 1980 and later. The brands are Buick, Cadillac, Chevrolet US, Corvette, GMC, Hummer, Oldsmobile, Pontiac and Saturn.

Honda

E10 is cleared for use in all Honda models equipped with a fuel injection petrol engine.

Hyundai

E10 is cleared for use in all petrol driven Hyundai models manufactured for the European markets in 1995 and later.

Jaguar

E10 is cleared for use in all Jaguar vehicles starting from model year 1992.

Jeep

E10 is cleared for use in all Jeep vehicles starting from model year 1989.

Kia

E10 is cleared for use in all petrol driven Kia vehicles starting from model year 2004. E10 may be suitable for use also in earlier models.

Lada

E10 petrol is not cleared for Lada vehicles.

Lancia

E10 petrol is cleared for use in all Lancia vehicles of Euro 3 emission level starting from model year 2000, excluding the following:

- Lybra: 1.6 16V, 1.8 16V, 2.0 20V
- Thesis: 2.0 Turbo 20V, 2.4 20V, 3.0 V6 24V, 3.2 V6 24V

Land-Rover

E10 is cleared for use in all Land Rover vehicles starting from model year 1996.

Lexus

All European petrol models made from January 1998 can use petrol blended with maximum 10% ethanol (E10) with the exception of the following models:

IS250 2.5 L V6 with engine 4GR-FSE made between August 2005 and September 2007.
GS300 3.0 L V6 with engine 3GR-FSE made between January 2005 and September 2007.

LS460 4.6 L V8 with engine 1UR-FSE made between August 2006 and September 2007.

All Lexus petrol cars made after 1.1.1998 but not compatible with E10, can use petrol blended with up to 5% ethanol (E5).

Maybach

E10 is cleared for use in all Maybach vehicles.

Mazda

E10 petrol is cleared for use in the following Mazda vehicles:

- Mazda6 (GG/GY) 2003-
- Mazda3 (BK) 2003-
- Mazda2 (DY) 2003-
- RX-8 (SE) 2003-
- Mazda5 (CR) 2005-
- MX-5 (NC) 2006-
- Mazda2 (DE) 2007-
- CX-7 (ER) 2007-
- Mazda6 (GH) 2008-
- Mazda3 (BL) 2009-

Mercedes-Benz

E10 is cleared for use in all petrol engine Mercedes-Benz vehicles starting from model year 1990. Excluded, however, are the AMG models as well as models C 200 CGI (W203) and CLK 200 CGI (C209) with first generation direct injection petrol engines. The latter models were originally never sold in Finland but some used vehicles have subsequently been imported into the country.

Mini

E10 is cleared for use in all Mini models starting from model year 2000.

Mitsubishi

E10 is cleared for use in all petrol engine Mitsubishi vehicles starting from model year 1999, excluding models Pajero and Carisma GDI which have been discontinued.

Nissan

E10 is cleared for use in the following petrol driven Nissan models:

- Micra, model year 2000 and later
- Note, model year 2006 and later
- Almera, model year 2000 and later
- Tiida, model year 2007 and later
- Almera Tino, model year 2000 and later
- Qashqai, model year 2007 and later
- Maxima, model year 2000 and later
- Primera, model year 2000 and later
- X-Trail, model year 2001 and later
- Pathfinder, model year 2002 and later
- Murano, model year 2004 and later.

Opel

E10 is cleared for use in all Opel vehicles excluding model years 2003 – 2007 with a direct injection petrol engine (motor code: Z22YH).

Peugeot

E10 is cleared for use in all petrol engine Peugeot vehicles starting from model year 2000.

Renault

E10 petrol is cleared for use in all Renault vehicles starting from model year 2000, excluding the 2.0 litre direct injection petrol engines (2.0 16V/F5R, not officially imported to Finland) and the 2.0 litre turbo charged petrol engines (F4Rt) of 2000-2002.

Saab

E10 is cleared for use in all petrol engine Saab models starting from model year 1979.

Seat

E10 is cleared for use in the following Seat models:

- Ibiza, starting from model year 2002
- Cordoba, starting from model 2003
- Leon, starting from model year 1999
- Toledo, starting from model year 1999, excluding the 110 kW 2.0 FSI BLR engine of manufacturing month up to 06/2004
- Altea, XL, Freetrack, starting from model year 2004, excluding the 110 kW 2.0 FSI BLR engine of manufacturing month up to 06/2004
- Alhambra, starting from model year 2001
- Ibiza, starting from model year 2008 (Ibiza V)
- All Exeo and Exeo ST models, starting from model year 2009.

Škoda

E10 is cleared for use in the following Škoda vehicles:

- Octavia HB and Combi: all petrol driven models excluding the 1.8T RS (132 kW) models (AUC engine)
- Fabia HB, Sedan and Combi: all petrol driven models excluding the 2.0 litre (85 kW) models (AZL engine)
- Superb: all petrol driven models excluding the 2.8 litre 30V V6 (142 kW) models (AMX engine)
- Felicia: all petrol engine models, provided that the O-ring seal in the fuel pressure regulator is replaced in the 1.3 litre (40 kW and 50 kW) engines to make them compatible with E10 petrol. E10 petrol is not suitable for use in Škoda models whose owner's manuals specify the use of 98 octane petrol only.

E10 is not suitable for use in Škoda models preceding those listed above (Forman, Favorit etc.).

Smart

E10 is cleared for use in all petrol engine Smart vehicles.

Subaru

E10 is cleared for use in all Subaru models starting from model year 1991.

Suzuki

E10 petrol is cleared for use in all models currently manufactured regardless of the model year. For older models, owner's manual restrictions must be sought and followed.

Toyota

All European petrol models made from January 1998 can use petrol blended with maximum 10% ethanol (E10) with the exception of the following models:

- Avensis 2.0 L with engine 1AZ-FSE made between July 2000 and October 2008.
- Avensis 2.4 L with engine 2AZ-FSE made between June 2000 and October 2008.

All Toyota petrol cars made after 1.1.1998 but not compatible with E10, can use petrol blended with up to 5% ethanol (E5).

Volkswagen

E10 petrol is cleared for use in all petrol engine Volkswagen vehicles excluding the first generation FSI engine models of model years 2004-2006. E10 petrol may be used in all petrol engine Volkswagen vehicles starting from model year 2007. E10 petrol is not cleared for use in the following Volkswagen models:

Model Engine Year

	Engine Displacement cm ³	Power kW	Code	
Polo	1390	63	AXU	2002 - 2006
Golf IV	1598	81	BAD	2002 - 2004
Golf IV Variant	1598	81	BAD	2002 - 2006
Bora	1598	81	BAD	2002 - 2005
Golf V	1390	66	BKG	2004 - 2005
Golf V	1598	85	BAG	2004
Golf V	1984	110	AXW	2004
Touran	1598	85	BAG	2003 - 2004
Touran	1984	110	AXW	2004

Volvo

E10 is cleared for use in all Volvo vehicles introduced on the market since 1984, i.e.:
Volvo 740, 940, 960, 850, 440, 460, 480, S40, S60, S70, S80, S90, V40, V50, V70, V70 XC, V90, XC60, XC70, XC90, C30 and C70.

E10 is not cleared for use in models S/V40 1998-2001 equipped with engine type 1.8 GDI. This model has not been imported to Finland by the authorized Volvo importer.

Data from sources other than the Association of Automobile Importers in Finland (Autotuoja ry)

Porsche

E10 petrol is cleared for use in Porsche models starting from manufacturing year 1996. Special attention must be paid to ensure that the petrol's octane rating meets the vehicle's requirements.