

Association of Automobile Importers in Finland (Autotuoja ry)

This listing was first published 26.5.2010. This updated version is dated 27.05.2011

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COMPATIBILITY OF E10 PETROL WITH VARIOUS PASSENGER VEHICLES

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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:

- Giulietta
- 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

E10 is cleared for use in all Chevrolet vehicles starting from model year 2006.

E10 is cleared for use in the following models:

- Spark
- Cruze
- Orlando
- Captiva starting from model year 2011
- Aveo starting from model year 2011

E10 petrol is not cleared for the following models:

- Matiz
- Aveo before model year 2011
- Kalos
- Nubira
- Lacetti
- Epica
- Captiva before model year 2011
- Evanda
- Tacuma

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.

Daewoo

E10 petrol is not cleared for Daewoo vehicles.

Dodge

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

Ferrari

95 E10 petrol is cleared for use in all Ferrari vehicles manufactured after 11/2004. The octane recommendation is however higher than that in order to achieve maximum performance.

Fiat

E10 petrol is cleared for use in 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 20V
- 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 starting from model year 1992 excluding Ford Mondeo 1.8 SCi (96 kW, 130 hp) of which model a total of 1032 vehicles were manufactured in years 2003-2006.

Ford models manufactured for the European market are Ka, Fiesta, Fusion, Puma, Escort, Focus, C-Max, Kuga, Mondeo, S-Max, Galaxy, Cougar, Scorpio, Probe, Maverick, Windstar, Explorer, Ranger, Connect and Transit.

If the car is imported from outside Europe the usability of E10 petrol should be checked from the owners manual. E10 petrol is cleared for use in all new petrol driven Ford cars.

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 and manufactured in 1990 or later.

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).

Maserati

E10 petrol is cleared for use in all Maserati vehicles of Euro 5 emission levels starting from model year 2009.

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) 2002-
- 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 in spite of manufacturing year excluding GDI-models which have gasoline direct injection.

Nissan

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

- Micra K12 model year 2002 and later
- Note E11 model year 2006 and later
- Almera N16 model year 2000 and later
- Tiida C11 model year 2007 and later
- Almera Tino V10 model year 2000 and later
- Qashqai J10 model year 2007 and later
- Qashqai +2 model year 2008 and later
- Maxima A33 model year 2000 and later
- Primera P12 model year 2001 and later
- X-Trail T30 model year 2001 and later
- X-Trail T31 model year 2007 and later

- Pathfinder R51 model year 2002 and later
- Murano Z50 model year 2004 and later
- Murano Z51 model year 2008 and later
- NV200 M20M model year 2009 and later
- NV200 M20N model year 2009 and later
- Juke F15 model year 2010 and later
- Micra K13 model year 2011 and later

Opel

E10 is cleared for use in all Opel vehicles excluding model years 2003-2010 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. Peugeot Automobiles recommends that E10 should not be used in Peugeot cars manufactured before 1.1.2000.

Porsche

According to the research done by the manufacturer of Porsche, **E10 should not be used in the following models of Porsche:**

Model	Manufacturing years
356	1950-65
912	1965-69; 1976
911	1965-89
911 (964)	1989-94
911 (993)	1994-98
959	1988-89
914	1970-77
924	1976-88
944	1981-91
968	1991-95
928	1977-95

All other Porsche cars manufactured from 1996 onwards can use E10. The octane recommendation is however 98 in order to achieve maximum performance and minimum fuel consumption.

Renault

E10 petrol is cleared for use in all Renault vehicles starting from model year 1997 with the following exceptions:

- Renault 19;
- Mégane 1, with the 2.0-l F5R 700 -engine (petrol, direct injection);

- Mégane 1, with the 2.0-l F5R 740 -engine (petrol, direct injection);
- Laguna 2, with the 2.0-l F5R 782-engine (petrol, direct injection).

Cars with these direct injection engines have not been officially imported to Finland.

And the following models from 1.1.2000-31.12.2002

- Laguna 2, with the 2.0-l F4R 764 -engine (turbo);
- Laguna 2, with the 2.0-l F4R 765 -engine (turbo);
- Espace 4, with the 2.0-l F4R 790 -engine (turbo);
- Espace 4, with the 2.0-l F4R 794 -engine (turbo);
- Vel Satis, with the 2.0-l F4R 762 -engine (turbo), not officially imported to Finland;
- Vel Satis, with the 2.0-l F4R 763 -engine (turbo), not officially imported to Finland;
- Avantime, with the 2.0-l F4R 760 -engine (turbo), not officially imported to Finland;
- Avantime, with the 2.0-l F4R 761 -engine (turbo), not officially imported to Finland.

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
- Arosa, model years 1997-2004
- 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 (AUQ 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.
- Roomster: all petrol engine vehicles
- Yeti: all petrol engine vehicles

E10 petrol is not suitable for use in Škoda models whose owners 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 is cleared for use in all petrol engine Suzuki passenger car models starting from model year 1990.

Toyota

New cars: E10 can be used in all petrol driven models on the European market.

Used cars: All European petrol models made from January 1998 can use E10 petrol blended with the exception of the following models:

- Avensis 2.0 VVT-i (1AZ-FSE) made between July 2000 and October 2008
- Avensis 2.4 VVT-I (2AZ-FSE) made between June 2003 and October 2008

Used cars: All Toyota petrol cars made after 1.1.1998 but not compatible with E10, can use E5 petrol.

Volkswagen

E10 petrol is cleared for use in all petrol engine Volkswagen vehicles from model year 1992 excluding the first generation FSI-engine models.

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 from model year 1976. 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.