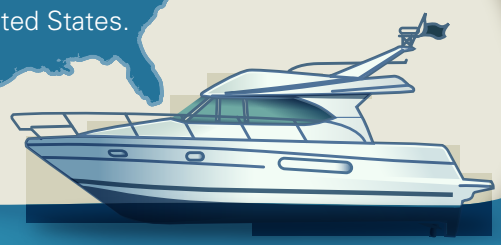
RFA RENEWABLE FUELS ASSOCIATION

www.ethanolrfa.org

Ethanol & Marine Engines

There are **12 million** recreational boats in the United States.



Boaters Trust E10

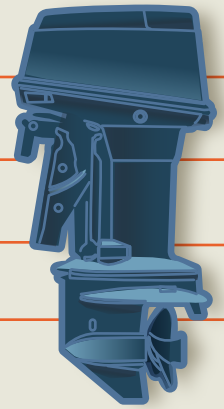
E10 — a fuel blend of 10% ethanol and 90% gasoline — is the oxygenate of choice for many boaters because of its high performance and lower emissions.

. . . But is My Engine Compatible?

All modern watercraft are compatible with E10. Every major marine engine manufacturer has approved the use of ethanol blends up to 10% for decades. Virtually all gasoline today contains 10% ethanol.

Boat manufacturers first approved the use of E10 in 1990

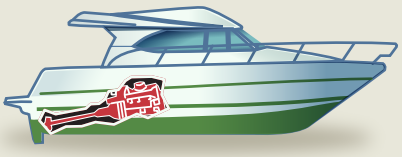
MANUFACTURER APPROVED



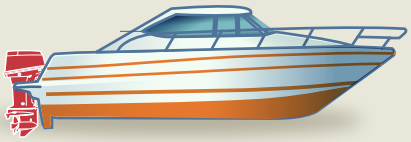
- Honda
- Kawasaki
- Mercury Marine
- OMC
- Pleasurecraft
- Tigershark
- Tracker
- Yamaha

SAFE FOR ALL ENGINE TYPES

Inboard

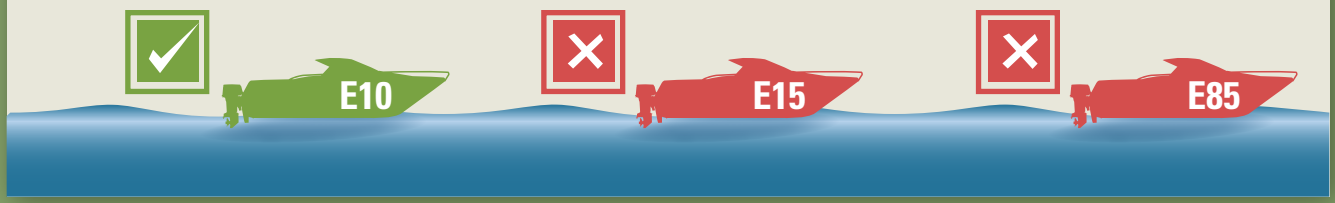


Outboard



2-Stroke or 4-stroke

ETHANOL USE IN MARINE ENGINES IS RESTRICTED TO E10 ONLY



Ethanol & Marine Engines

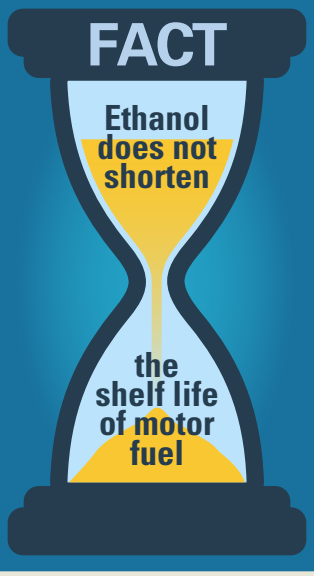
ETHANOL BOOSTS PERFORMANCE

Ethanol's higher octane rating increases engine performance by:

MINIMUM OCTANE RATING (R + M) / 2 METHOD
BURNING CLEANER

MINIMUM OCTANE RATING (R + M) / 2 METHOD
REDUCING KNOCK

MINIMUM OCTANE RATING (R + M) / 2 METHOD
ACTING AS A SUPERIOR WINTERIZER



Preferred by Professionals

The National Boat Racing Association exclusively uses E10 for their races.

"There is a myth out there that 10% ethanol is not good for marine engines, but we have been operating for over 20 years and have not had any issues with it whatsoever."
"…There are absolutely no problems running on 10% ethanol."

— **Vernon Barfield**
Former Vice President and Technical Chairman of the National Boat Racing Association

REGULAR MAINTENANCE IS KEY

Like any other fuel, it is important for boat owners using E10 to properly maintain their engines.

TIP 1
Ensure a tight seal. If water is found, dry the tank before refueling.

TIP 2
If possible, have your watercraft prepared for storage by an authorized facility for winterizing.

TIP 3
Always consult your owner's manual if you have any questions.

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