

TATA 1.2L Naturally Aspirated Flex Fuel Engine

TATA Motors is committed to provide green and alternate fuel based engine solutions. Taking steps forward towards the Government of India initiative of ethanol based flex fuel policy, Tata Motors presents the 1.2L naturally aspirated flex fuel engine which is capable of operating across the complete range of ethanol based fuel blends with the help of smart software solutions. This internal combustion engine designed to operate on a wide range of ethanol fuel blends offers several advantages, including reduced reliance on fossil fuels and increased energy security. This engine utilizes advanced engine control systems that can automatically adjust to various ethanol fuel blends ON-the-GO. This flex-fuel engine represent a significant step forward by Tata Motors in automotive technology, offering a more sustainable and flexible approach for transportation.

Key highlights:

- The engine is designed with optimal Compression Ratio for enhanced combustion characteristics to suit the complete range of ethanol blends, ensuring a perfect balance of performance and fuel efficiency
- Heated fuel injection system ensures smooth engine start and operation across all ambient conditions
- Smart ethanol percentage detection by software for seamless transitions between various ethanol blends, providing maximum flexibility
- Advanced engine electronic control system with capability of flex fuel operating maps and heater control
- Engineered to withstand the rigors of everyday driving, this engine offers long-lasting performance and peace of mind
- Advanced Exhaust Aftertreatment system to significantly lower emissions across the ethanol fuel blends, contributing to a cleaner environment

Technical Specifications:

Parameter	1.2L Flex Fuel Engine
Engine Type	3 Cyl, Naturally Aspirated
Engine Displacement	1198cc
Emissions Compliance	Bharat Stage 6, Phase 2
Fuel Type	E20 – E85*

*E85 as per IS 16634:2023