



Octamax®

Production of Gasoline Component of very high Octane

Production of clean fuels meeting stringent BS-VI/Euro-VI specifications while enhancing valuable products per barrel of crude oil continue to play a major role in sustaining refinery margins. Deep desulphurisation of cracked gasoline streams, as necessary for meeting sulphur specification in gasoline pool, leads to reduction in octane number. Hence, processes producing high RON, low RVP, low aromatic gasoline blending stream is essential. Octamax technology developed by IndianOil R&D enables refiners to produce high octane stream from cracked C_4 streams thus providing greater flexibility in achieving BS-VI/Euro-VI MS specifications. Since the blending RON of Octamax product is very high, even higher than the conventional Alkylate, it helps in increasing gasoline production through blending of low Octane naphtha.



Salient Features

- Produces gasoline blending stream with high blending RON(>120) and low RVP flexibility to maintain gasoline specifications in various adverse scenarios
- Accepts wide range of cracked feedstocks (C_4 stream from Catalytic as well as Ethylene Crackers)
- Feed pre-treatment is optional depending on level of impurities in C_4 stream
- Employs a simplified process scheme while maximizing conversion to high octane components



Major Benefits

- Cost-effective technology - lower Capex & Opex by design optimisation
- Environment friendly - Does not require handling of any toxic material compared to other similar technologies
- Low carbon footprint due to moderate process conditions
- Provides high degree of flexibility to augment gasoline quality and quantity
- Direct blending of product into gasoline pool without any further treatment

Commercial Experience

Commissioned Units

- A grassroots Octamax unit of 55 KTA capacity (product rate basis) commissioned in 2018 in one of the Indian refineries producing Gasoline stream with blending RON >120

Upcoming Units

- One grassroots unit of 110 KTA capacity (product rate basis) in an upcoming refinery complex in India - scheduled for commissioning by 2026
- Third unit of 102 KTA - under implementation, commissioning by 2025
- Feasibility study in progress for one grassroots unit

