

EEPC Conference 2020 – Abstract/Technical Paper

ABSTRACT

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Subject: YIELDUP®, Coating technology for Steamcracker furnace coils

Cokes formation on the inner wall of steamcracking furnace coils has a major influence on the process efficiencies and economical operations from the unit. The recent development and test work jointly performed by both Manoir & Suez WT&S has proven the effectiveness of this technology, reducing cokes formation increasing the furnace run-length drastically, in the order of magnitude >2-3 times

Taking into consideration the different types of feedstock being processed in steamcracking units, this coating has been installed in a naphtha / LPG cracking furnace and has shown very promising results since start-up one year and a half ago.

The coating is based upon a microfilm ceramic catalyst capable of converting cokes to carbon oxides on contact. In other words, when cokes forms during cracking it is instantaneously gasified on contact with the wall.

The applied coating has proven to be very robust, including thermal shocks, the exposure to a range of impurities, based on the numbers of decoking which took place during the last 20 months

The webinar will provide additional details of coating manufacturing sequence and the furnace performance