

High temperature combustion

McGill University, Mechanical Engineering Research Laboratories - Combustion



Description: -

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Crime, law and social change -- vol.24 (1)

McGill University. Mechanical Engineering Research Laboratories.

Report -- no. SCS 18High temperature combustion

Notes: Bibliographical references: p. 41-46.

This edition was published in 1960

Filesize: 24.54 MB

Tags: #832 #Series #Combustion

High Temperature Reaction Rates in Hydrocarbon Combustion

This temperature is required to supply the needed for. Frequent cycling also deteriorates the boiler components.

ShieldSquare

Thermokinetic interactions: Fundamentals of spontaneous ignition and cool flames. For this reason several CVOC conversion trends concerning the length of hydrocarbon chain, Cl substitution degree, and positions can be predicted. A significant portion of the NOx from stationary sources can be attributed to residential, commercial, and industrial sources, including industrial boilers.

Autoignition temperature

Technology Pressure from legislation regarding pollution, and from boiler users regarding economy, plus the power of the microchip have considerably advanced the design of both boiler combustion chambers and burners. Another major area of need for waste treatment and disposal is the clean up of contaminated sites.

Boiler Combustion

The viscosity of oil varies with temperature: the hotter the oil, the more easily it flows.

High Temperature Reaction Rates in Hydrocarbon Combustion

The autoignition temperature or kindling point of a substance is the lowest temperature in which it in a normal atmosphere without an external source of ignition, such as a flame or spark.

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