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Title:

THE DEVELOPMENT OF JET FUELS ABROAD

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Abstract:

The most widely used jet fuels abroad at the present time are the two types of hydrocarbon fuels obtained by direct distillation: the kerosene type and the wide-fraction type. The kerosene type includes kerosene or the ligroin-kerosene fraction of petroleum; the wide-fraction type, together with the ligroin-kerosene fraction, includes also the benzene fraction. The use of wide-fraction fuels for jet engines makes it possible to increase considerably the production of fuels, bringing the total output of fuel to 4559% of crude. Studies on the improvement of modern supersonic jet aircraft fuels have developed mainly along two basic lines: (1) increasing the thermal stability of fuels at elevated temperatures, which can reach 150-300 degrees under supersonic flight conditions, depending on the speed of flight; and (2) improving the energy characteristics of the fuels (heat of combustion, specific weight, and combustion efficiency), which can increase the range and ceiling. (Author)

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