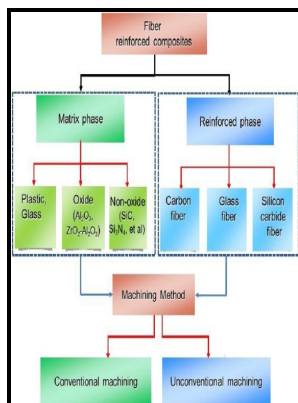


# Modification of coal-tar pitch for use as a precursor for matrix carbon in carbon-carbon composites

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It involves impregnating rigid-preforms with liquid matrix-precursors and subsequently heating to high temperatures to initiate pyrolysis. Although, this high-molecular-weight condensation polymer does not wet the surface, it is not expelled if there is a single phase because it is highly viscous.

## Densification Behavior and Performances of C/C Composites Derived from Various Carbon Matrix Precursors

Investigation on chemical and structural properties of coal- and petroleum-derived pitches and implications on physico-chemical properties solubility, softening and coking.

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One or more of these chemical infiltration processes is generally repeated three to five times or more before the desired density at least 1. Description This application claims priority to provisional application Ser. It occurs because cracking occurs more easily at solid surfaces.

## Experimental study, modeling and optimization to improve heat resistance of modified resole

It is known that the void space of reinforcing structures densified using pitch is incompletely filled.

## Carbon/carbon composites based on a polyimide matrix with coal tar pitch

Fluorescence spectroscopic studies of mesophase formation. These composite materials are unique in that they have a uniform density through the composite and the smallest voids are completely filled preferentially by capillary action and remain filled during processing. Alternatively they can utilize a high-viscosity liquid matrix-precursor forced in with higher pressure, which results in a small amount of better-quality matrix due to its higher molecular weight and good pyrolysis efficiency.

EXAMPLE 4 As in the previous example a low-density low-performance sample was densified using the techniques of this present invention in order to demonstrate that this process can also be used to density a low performance preform.

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