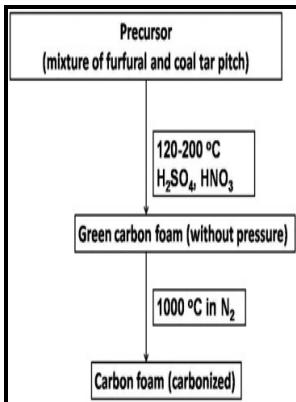


# Modification of coal-tar pitch for use as a precursor for matrix carbon in carbon-carbon composites

-- EP2093453A1



Description: -

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Notes: Thesis (M.Phil.) - Loughborough University, 1998.

This edition was published in 1998



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Tags: #Preparation #and #pyrolysis #behavior #of #modified #coal #tar #pitch #as #C/C #composites #matrix #precursor

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Effect of granular reinforcements on the properties of pitch-based carbon.

## Comparative studies of the modification of coal

The preform is heated under inert conditions to well above the melting point of the impregnating pitch. Baharvand H, Rahimi A 2006 Dispersion pathway on increasing toughness of epoxy resins.

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

Adams, Finite Element Micromechanics and Minimechanics of a Three Dimensional Carbon-Carbon Composite Material. Google has not performed a legal analysis and makes no representation as to the accuracy of the date listed.

## Method for preparing an improved pitch impregnant for a carbon

Their density and properties depend on the type and volume fraction of reinforcement, matrix precursor used and end heat treatment temperature. This is 4 times smaller than an equivalent 3-D material that has been densified by conventional processing techniques. Through this process, PAA becomes a better carbon-carbon matrix precursor because the microstructure can be controlled from a glassy carbon to a graphitic structure.

**US7632436B2**

There are many advantages in obtaining graphitic structures. However, it is also sometimes called pyrolysis, the same term used previously to describe similar thermal decomposition reactions occurring in solids and liquids.

## Characterization and Damage Evaluation of Coal Tar Pitch Carbon Matrix Used in Carbon/Carbon Composites

In contrast to industry thinking for the past 30 years, viscosity is not the dominant issue in impregnation.

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

This is the polymerization pathway used to form the matrix precursor.

#### **British Library EThOS: Coal**

Since the present process is based on wettability, the efficiency of densification is proportional to the preform surface area and inversely proportional to void size.

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