

ABSTRACT

CHEMICAL VAPOR DEPOSITION-PRODUCED SILICON CARBIDE

HAVING IMPROVED PROPERTIES

β -silicon carbide which is optically transmitting in the visible and infrared regions is produced by chemical vapor deposition. Deposition conditions are temperatures within a 1400-1500°C range, pressure 6.7kPa or less, H_2 /methyltrichlorosilane molar ratios of 4:-30: 1 and a deposition rate of 1 μm or less.

(Figure 1)

This Sheet Has Been Replaced

