

(3) This study shows us that when the initial crack width and repair temperature is $-15\sim 30\text{ }^{\circ}\text{C}$, the repair rate of the glass fiber tube is slightly better than that of the diamond when the inverted trapezoid is placed. It is very valuable to study the effect of the location of the repair material on the repair effect.

(4) The initial width of the crack in this study had the greatest impact on the repair rate, followed by the temperature conditions and the placement of the fiberglass tube. The corresponding factor level under the maximum repair rate is 1.0mm, $30\text{ }^{\circ}\text{C}$ and inverted trapezoid, which is of great significance for the study of the repair effect under the same conditions.

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