



图4 蒸汽加热温度随时间变化曲线

了运行成本,提高了生产安全性。同时,导热油循环加热系统是通过导热油热传导降温放出热能达到加热目的,设备构成简单,最佳加热温度范围在100~380 °C内,加热范围广。

导热油加热胶带硫化机的影响因素较多,从理论上量化这些因素的影响还有待于进一步探讨。

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Finite Element Analysis on Heating Plate Temperature Field of Large Belt Curing Press Heated by Heat Transfer Oil

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Abstract: The heating plate transient temperature field of large belt curing press with heat transfer oil as heat carrier was analyzed by using ANSYS finite element analysis software, and the temperature distribution of the heating plate and the change of temperature with time were obtained. The heat transfer oil heating was compared with steam heating, and the simulation results showed that by using heat transfer oil in the large belt curing press, the process had higher efficiency and lower energy consumption. This study provided references for the application of heat transfer oil in the belt curing press.

Key words: heat transfer oil; belt curing press; heating plate temperature field; finite element analysis

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