

## Effect of Heat Treatment on Superconducting Properties on Bi2212/Ag Wire

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We have fabricated double stacked 385 filamentary Bi2212/Ag round wires which have different Ag ratios. The wires have been heat treated at the maximum temperature,  $T_{\max}$ , of 882 ~ 896 °C for 0.5 h. Effect of heat treatment on critical current density and critical temperature on Bi2212/Ag round wires has been studied. Critical current density of the wire heat treated at 890 °C showed 206,200 A/cm<sup>2</sup> at 4.2 K, 0 T and critical temperature of the wire was 83 K. Microstructure of the wires also has been studied via optical microscopy and SEM.

Keywords : Bi2212 wire, Critical current density, Maximum temperature