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## **Persistent Current Characteristics at Temperatures Below 77K in Closed Superconducting Loops Made Out of RE123 Coated Conductors**

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We will report recent experimental observations of persistent current in closed loops made out of the currently manufactured coated conductors. Two types of coated conductors were investigated. One was developed for high magnetic field application and the other for cable applications. Data was taken in the range of 23K to 38K with the persistent current being induced by field cooling the loops and then turning off the external field. The relaxation rate in this temperature range is very low and these results suggest that coated conductors can be considered as a viable option for persistent current applications such as energy storage, MRI magnets, and magnetic levitation. We also obtained the values of the persistent critical current as determined by a slow warming of the loops and monitoring the magnetic field created by the circulating current. These values will be compared with the resistive critical current usually specified by the manufacturers.

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