

°C cooling effect of water in 10 wt %

	Normal PET fiber(75D/48F)	Cool Jade PET Fiber(75D/48F)	Testing Condition
Beginning Temperature	28°C	28°C	Water Rate 2 wt % Water Fog Control
Ending Temperature	27.07°C	24.92°C	
Temperature Difference	0.93°C	3.08°C	

°C cooling effect of water in 4 wt %

	Normal PET fiber(75D/48F)	Cool Jade PET Fiber(75D/48F)	Testing Condition
Beginning Temperature	28°C	28°C	Water Rate 4 wt % Water Fog Control
Ending Temperature	26.03°C	24.62°C	
Temperature Difference	1.97°C	3.38°C	

The test is conducted with a physical human being by jogging on a jogging machine with the speed of 4 km/hr. The environment temperature is set at $28\pm 1^{\circ}\text{C}$, with humidity of $60\pm 2\%$ R.H. The tested object is a male with years of age of 27. We use micro-climate physical temperature and humidity meter(SHIN-YEI THR-7X) to monitor the chest center of the object.

The test is divided into three phases. The first phase is adjusting period, lasting for 10 minutes in sitting position. The second phase is the testing period lasting for 20 minutes in jogging condition. And the last phase is the recovering period lasting 20 minutes also in sitting position. This kind of test is the most realistic test.

Test Items		Test Results	
		Normal PET fiber	Cool Jade PET fiber
Micro Temperature (°C)	Adjusting Period	31.6	31.0
	Testing Period	30.9	30.4
	Recovering	30.8	30.2

	Period		
Micro Humidity (% R.H.)	Adjusting Period	56	46
	Testing Period	72	64
	Recovering Period	59	38