

Abstract

METHOD AND DEVICE FOR DETECTING WATER VAPOR INTRUSION PATH OF
POLYMER ENCAPSULATED DEVICES

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The present invention discloses a method and device for detecting the water vapor intrusion path of an polymer encapsulated device, the method includes: conducting a water vapor tracer marker based on a predetermined tracer for the polymer encapsulated device to be tested and obtaining a tracer marker sample; conducting
10 secondary ion mass spectrometry analysis on said tracer marker sample to obtain the tracer intensity of the tracer marker sample; and determining the path and speed of water vapor intrusion based on said tracer intensity. The present invention detects the path and speed of water vapor intrusion of the polymer encapsulated device by combining the pre-set tracer with secondary ion mass spectrometry, which is
15 conducive to improving the dynamic detection accuracy of water vapor intrusion and fundamentally enhancing the moisture-proof reliability of the polymer encapsulated device.

(FIG. 1)