Cross Technology Inc.
Nu-Tech
305 Junia Avenue
Winston-Salem, NC 27127
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Customers inquiring about IP Code (Ingress Protection Rating)

March 6, 2014

Product Tested: Nu-Tech NUS series 4X fitting

Test Date: 3-5-14
Report Date: 3-6-14

Test(s) preformed: IEC 60529 Degrees of Protection Provided by Enclosures (IP Ratings)

- IP6X Dust-Tight
- IPX5 Protection against Water Jets
- IPX6 Protection against Powerful Water Jets

Test Results: The two enclosures PASSED IP65 and IP66 Dust and Water tests.

The units subjected to dust exposure for 8 hours did not show any evidence of dust ingress. The unit showed to be dust-tight in accordance with IP6X requirements.

The units subjected to water jets and powerful water jet spray did not show any signs or evidence of water ingress .

Test Description: Dust Test: The test units were mounted on their base within the dust chamber during the exposure for 8 hrs. The dust media (talcum powder), of 2kg per cubic meter, was maintained in suspension throughout the 8 hour exposure. A 2 kPa negative pressure was pulled from the enclosure with a vacuum pump, as measured with a slack-tube manometer. Upon completion of exposure the units were opened and inspected for dust ingress.

Water Test: The test units were subjected to a water jet spray from a 12.5 mm diameter hose nozzle at a flow rate of 100 liters per minute from a distance of 2.75 meters for a duration of 3 minutes minimum. Upon completion of the exposure the units were opened up and inspected for water ingress.

Nu-Tech claims (IP65 & IP66 Ratings)
As referred by the International Electrotechnical Commission (IEC)

Correctly installed properly sized Nu-Tech adhesive lined shrinking components, when recovered create a hermetically enclosed seal intended for either indoor or outdoor use, to provide a degree of weatherproofing. Nu-tech seals provide a flexible seal capable of withstanding powerful high temperature water jets and are suitable for high-pressure, high-temperature wash-down applications including steam cleaning.

Nu-Tech.us a division of Cross Technology Inc. manufacturers designs and builds their shrinking component seal enclosures to meet the requirements of IEC 60529 rating system. As a manufacturer we certify through verification (testing) that are parts are compliant and suitable for usage, especially those in extreme environmental conditions or in need of regular cleaning. Since IEC is not a ruling body like UL, the liabilities of results are assumed by us the manufacturer. Upon request, independent third-party validation and certifications of compliance can be obtained pending the re-imbursement by parties seeking the validation. IEC sets the standards we abide by but does not facilitate our compliance testing.

Authorized Representative

Keven Crick Systems Administrator

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