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Related Applications

-  Automotive Electronics Test Solutions
-  Household Appliances Test Solutions
-  Plug and Switch Test Solutions
-  LED Driver Test Solutions
-  Mobile and Network Test Solutions
-  LEDs and Luminaire Test Solutions

Related Technical Articles

- IP test standards and test requirements of Road Vehicles
- Introduction of dust-proof test equipment and how to judge for the test results
- The main differences between the LED driver standards ANSI / UL8750 and EN / IEC 61347-2-13
- Basic Environmental Test for Luminaire According to IEC 60068
- The development, application and test standards of LED street lights in the Southeast Asian market
- AMA: LED Street Light above 3000K Bears More Health Risks
- IEC60598 General Requirements and Testing
- Type of Lamp Caps
- IEC 60529 (GB4208-2008) IP Protection Grade Waterproof and Dustproof test
- LISUN Moves to New Office
- LED Quality Testing Instruments

Related Successful Case

- Germany – Installation and training for SC-015 Dustproof Testing Machine and JL-34 & JL-56 Waterproof Test Equipment
- Costa Rica – Installation and training Integrating Sphere Test System, dustproof and waterproof test equipment, EMI/EMC test machine, etc.
- Malaysia – Installation and training for dustproof and waterproof test machine, IK level tester
- Columbia – Installation for waterproof & dustproof test, goniophotometer, temperature



Dustproof Testing Machine

Product No: SC-015

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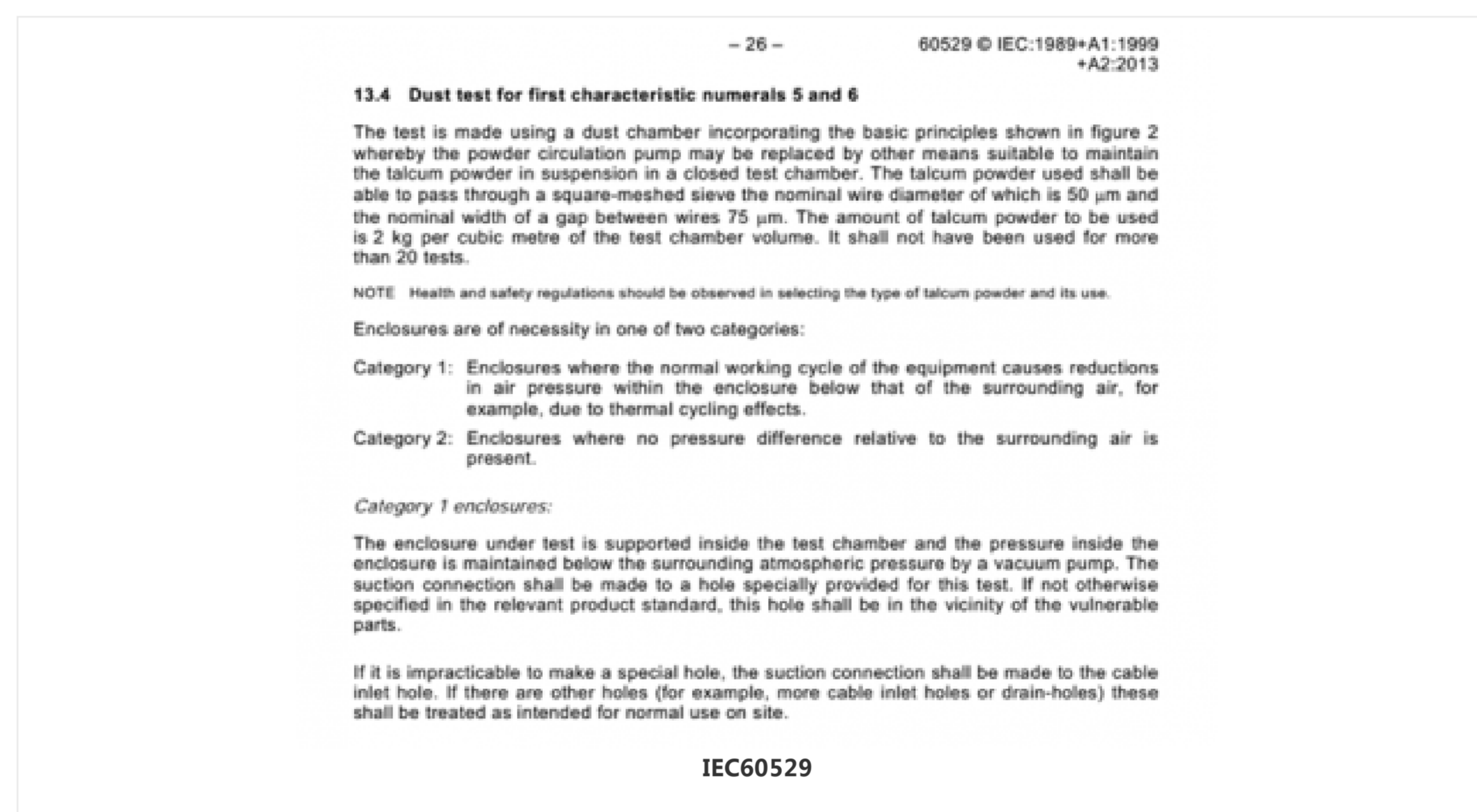
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SC-015 Dustproof Test Chamber (Sand Dust Test Chamber) is applied to physical and other related performance tests for electronic and electrical products, lamps, electrical cabinets, electrical components, automobiles, motorcycles and their parts and other products under simulated dust climate conditions. After the measurement, it is judged whether the performance of the product meets the requirements through verification, so as to facilitate the design, improvement, verification and factory inspection of the product. Comply meets IEC60529:1989 +A1:1999 +A2: 2013 <Degrees of protection provided by enclosures (IP Code)>, IEC60598-1, GB2423.37-89 (Test L: dust test methods), GB4208, GB/T 4942.2-93(protective casing grade of low-voltage apparatus), GB7000.1 <Luminaires Part 1: General Requirements and Tests> 9.2.1, 9.2.2 and Figure 6, DIN40050 and IP5K0. It is applicable to the IP5X and IP6X dustproof test of the products.



Product Model:

Model Number	Working Room Size (mm)	Remark
SC-500	700*800*900	Single door structure
SC-800	800*800*800	
SC-010	1000*1000*1000	
SC-015	1000*1500*1000	Double door structure
SC-020	1000*2000*1000	

Specifications:

- Temperature range: RT+10~50°C
- Standard wire warp of metal net: 50um; Standard spacing between wires: 75um
- Test dust: dry talc powder; Talc powder dosage: 2~4kg/m; Dust reduction method: free dust reduction
- Total test time: 0~999H (adjustable); vibration time: 0~999H (adjustable); timing accuracy: ±1 second
- Vacuum: 0~10Kpa (adjustable); Pumping speed: 0~4800L/H (adjustable)
- Power supply of test samples: single-phase 220V/50Hz or 100V/60Hz
- Safety protection function: leakage protection, short circuit protection
- The shell is made of domestic high-quality steel plate, and the surface is sprayed with paint, which is beautiful and durable.
- The inner box, sample rack, etc. are made of stainless steel plates to ensure that they will not rust for a long time.
- There is a transparent observation window (toughened glass material) on the door, and an LED lighting lamp is installed in the box to facilitate the observation of the internal test situation.
- There is a device for replacing dust at the bottom of the device, which can easily 100% replace the used dust.
- A special device is installed to ensure that the dust does not stick to the wall and condense. The working time of the device is adjustable, and it can work automatically and alternately.
- There is a suction pipe in the box, which can complete the vacuum action on the sample (require the sample to reserve the suction hole position).
- Dustproof test chamber control system: **7-inch touch screen + Panasonic PLC**. The dust blower, dust vibration and total test time can be controlled separately. This controller has the following various arbitrary setting control functions:
 1. Dust blowing time (stop, blowing): can arbitrarily choose any of continuous and periodic dust blowing time to setting;
 2. Vibration time: vibration and stop vibration time are automatically alternated;
 3. Preset test time: the maximum test time is 99 hours and 59 minutes;
- Heating system: The circulating air duct is equipped with a heater to heat the dust to avoid dust condensation. The heat of the muffler mica sheet heating ring is safe and stable.
- Vacuum system: equipped with vacuum pump, vacuum pressure, air filtration, flow meter, pressure regulating triplet, connecting pipe.

