

Differential Pressure (Delta P) Final Report

Test Article: CF2020-3
 Manufacturer: Cheerful Industrial Limited
 Study Number: 1334505-S01
 Study Received Date: 24 Aug 2020
 Testing Facility: Nelson Laboratories, LLC
 6280 S. Redwood Rd.
 Salt Lake City, UT 84123 U.S.A.
 Test Procedure(s): Standard Test Protocol (STP) Number: STP0004 Rev 18
 Deviation(s): None

Summary: The Delta P test is performed to determine the breathability of test articles by measuring the differential air pressure on either side of the test article using a manometer, at a constant flow rate. The Delta P test complies with EN 14683:2019, Annex C and ASTM F2100-19.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside
 Delta P Flow Rate: 8 Liters per minute (L/min)
 Conditioning Parameters: 85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours

Results:

Test Article Number	Delta P (mm H ₂ O/cm ²)	Delta P (Pa/cm ²)
1	4.9	47.9
2	5.1	49.9
3	5.1	49.8
4	5.0	48.8
5	4.9	48.2



Leah Tiberius electronically approved for
Study Director

James Luskin

04 Sep 2020 15:05 (+00:00)

Study Completion Date and Time