

## Automotive & Powersports

# THE FACTS ABOUT YOUR INTAKE & AIR FILTER

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

	Part Number:	Test Date:	
	Description:	Test Report #:	
Ve	hicle Applications:		

#### TECHNICAL BULLETIN

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

FACT: S	&B F	lows_	_ Better	than	Stock.	

**WATCH OUT:** Some competitors overstate airflow.

In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

If they state that their filter will flow, let's say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than	Test Conditions	
	Stock (tested @cfm)	Barometric Pressure	
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)		Airflow Setpoint	
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)		Relative Humidity	
		Temperature	
S&B Intake w/ Dry Filter		Type of Dust	
(Secondary Inlet - Open		Batch #	
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Dust Feed Rate (grams/minute)	

# **FACT:** S&B Protects Your Engine

S&B Tests at the highest rated CFM for your vehicle when determining the efficienty rate (amount of dust the filter stops), so that we can be sure that your engine will be protected

Description	(Tested @cfm,
Stock	
S&B Intake w/ Cleanable Filter	
S&B Intake w/ Dry Filter	

#### **WATCH OUT:** Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers

Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers

### **Air Filter Restriction Test Report**

Test #: 871 Sample #: 09R Filter #: Housing #: Date Code: 44791 JJ 8/18/2022



58 %

72 deg. F

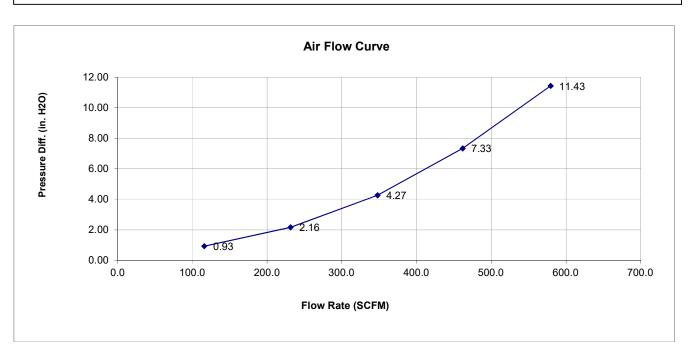
in.

Test Description: 75-5157, 1999-2008 CHEVY / GMC/ CADILLAC. 4.8L / 5.3L / 6.0L, 580 CFM, RESTRICTION, PLUGED, OILED FILTER

Test Conditions

Barometric Pressure: 28.80441 in. Hg
Air Flow Type: SCFM
Number of Pleats: Pleat Depth:

Flow Direction:



#### **Air Flow Curve Data**

Flow Rate	<u>Differential Pressure</u>		
116	0.93		
231	2.16		
348	4.27		
462	7.33		
579	11.43		

### **Air Filter Restriction Test Report**

Test #: 871 Sample #: 10R Filter #: Housing #: Date Code: 44791 JJ 8/18/2022

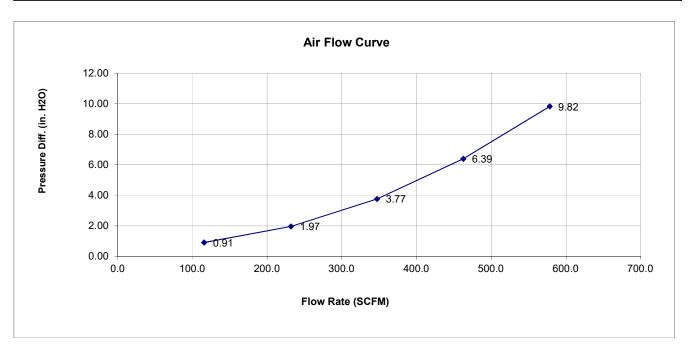


Test Description: 75-5157, 1999-2008 CHEVY / GMC/ CADILLAC. 4.8L / 5.3L / 6.0L, 580 CFM, RESTRICTION, UN-PLUGED, OIL FILTER

**Test Conditions** 

Barometric Pressure: 28.79967 in. Hg
Air Flow Type: SCFM

Number of Pleats: Flow Direction: Relative Humidity: 62 % Temperature: 72 deg. F Pleat Depth: in.



#### **Air Flow Curve Data**

Flow Rate	Differential Pressure
116	0.91
232	1.97
347	3.77
463	6.39
578	9.82

#### Air Filter Full Life Efficiency Test Report

Test #: 871 Sample #: 11CE Filter #: Housing #: Date Code: 44791

Operator: JJ Report Date: 8/18/2022 Filter Mfg.: Housing Mfg.:



Test Description: 75-5157 1999-2008 CHEVY / GMC/ CADILLAC. 4.8L / 5.3L / 6.0L, 580 CFM, CAPACITY, PLUGED, OILED, 14057C

**Test Conditions** 

Barometric Pressure: 28.788 in. Hg **Relative Humidity:** 55 %

Type of Dust: 580 SCFM Air Flow Setpoint: Test Procedure: FICIENCY Batch #:

Air Flow Type: Temperature: **SCFM** 72 deg. F **Test Endpoint:** 10 in. H2O Initial Add Rate: NaN g/min Number of Pleats: Accumulative Add Rate: 16.42 g/min Flow Direction: Pleat Depth: in.

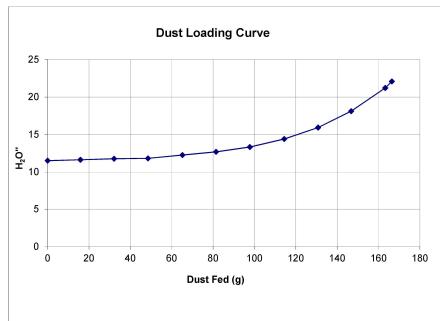
Test Results

Initial Delta P 11.27 in. H2O **Accumulative Capacity:** 165.70 g

Test Time: 10.20 min

	Initial		Accumulative	)
		Blanket		Blanket
Start			3795.10	583.34
End			3960.80	584.39
Gain			165.70	1.05
Efficiency			99 37%	

Standard Restriction Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	11.529		
15.838	11.652		
32.109	11.785		
48.537	11.849		
65.21	12.289		
81.413	12.718		
97.786	13.351		
114.432	14.427		
130.769	15.953		
146.71	18.121		
163.188	21.22		
166.445	22.1		





