

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 #:
Vehicle 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 Flows	Better than Stock.	WATCH OUT: Some con

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.

WATCH OUT: Some competitors overstate airflow.

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		Relative Humidity
(Secondary Inlet - Closed)		Temperature
S&B Intake w/ Dry Filter	Million V	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

RESET FORM

Test #: 886-R75pleat190gNBP

JM 5/31/2023

Sample #:

Filter #: KF-1085, 75 pleats, 190g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Test Description: 75-5085 with Snap-In Lid, KF-1085 75 pleat 190g oil, MAF Plug, No Box Plug

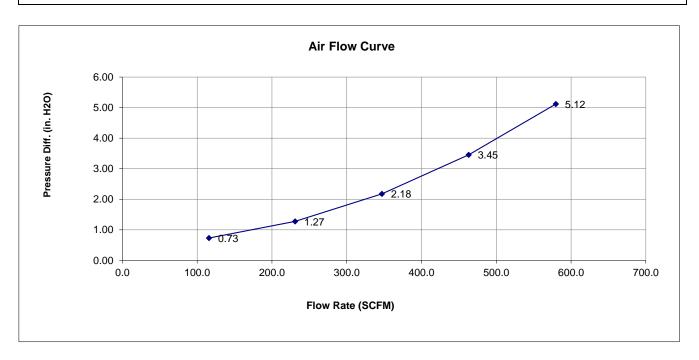
Test Conditions

Barometric Pressure: 28.79079 in. Hg Air Flow Type: SCFM Number of Pleats: 75

Relative Humidity: Temperature: 54 % 69 deg. F

Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
116	0.73
231	1.27
347	2.18
463	3.45
580	5.12

JM

5/31/2023

Test #: 886-R75pleat190g

Sample #:

Filter #: KF-1085, 75 pleats, 190g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Test Description: 75-5085 with Snap-In Lid, KF-1085 75 pleat 190g oil, MAF Plug, Box Plug

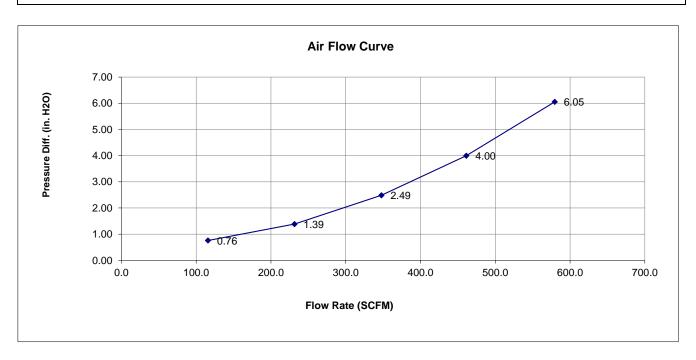
FILTERS
BREATHE EASY, YOUR ENGINE A WARRANTY ARE PROTECTED.

Test Conditions

Barometric Pressure: 28.78773 in. Hg
Air Flow Type: SCFM
Number of Pleats: 75

Flow Direction:

Relative Humidity: 53 %
Temperature: 69 deg. F
Pleat Depth: in.



Flow Rate	<u>Differential Pressure</u>
116	0.76
231	1.39
348	2.49
461	4.00
579	6.05

Air Filter Full Life Efficiency Test Report

Test #: 886-CE75pleat190g

Sample #:

Filter #: KF-1085, 75 pleats, 190g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Operator: JM Report Date: 5/31/2023

Filter Mfg.: Housing Mfg.:



Test Description: 75-5085 with Snap-In Lid, KF-1085 75 pleat 190g oil, MAF Plug, Box Plug

Test Conditions

 Barometric Pressure:
 28.793 in. Hg

 Air Flow Setpoint:
 580 SCFM

 Test Procedure:
 C&E

 Air Flow Type:
 SCFM

 Test Endpoint:
 10 in. H2O

Number of Pleats: 10 in.

Flow Direction:

Relative Humidity: 54 % Type of Dust: A4 Coarse Batch #: 14057C

Temperature: 69 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 16.42 g/min

Pleat Depth: in.

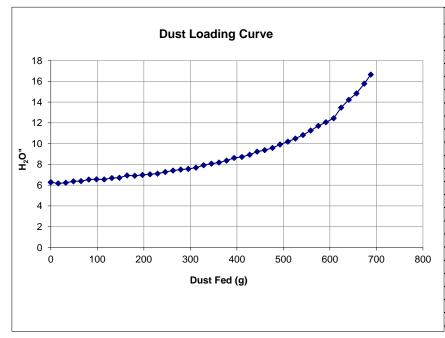
Test Results

Initial Delta P 6.02 in. H2O

Accumulative Capacity: Test Time:

656.60 g 41.93 min

Standard RestrictionPressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	6.283	
15.881	6.167	
32.268	6.238	
48.764	6.369	
65.056	6.39	
81.688	6.548	
98.13	6.573	
114.73	6.557	
131.198	6.693	
147.358	6.71	
163.972	6.942	
180.454	6.911	
196.916	6.982	
213.206	7.053	
229.591	7.105	
246.082	7.275	
262.744	7.404	
279.18	7.502	
295.544	7.565	
312.034	7.693	
328.502	7.925	
345.359	8.065	
361.681	8.181	
377.864	8.369	

JM

4/27/2023

Test #: 886-R115pleat27gNBP

Sample #:

Filter #: KF-1085D, 115 pleats, 27g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Test Description: 75-5085 with Snap-In Lid, KF-1085D 115 pleat 27g oil, MAF Plug, NO Box Plug



Test Conditions

Barometric Pressure: 28.80624 in. Hg
Air Flow Type: SCFM
Number of Pleats: 115

Flow Direction:

Relative Humidity: 53 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve 6.00 Pressure Diff. (in. H2O) **♦** 5.15 5.00 4.00 3.48 3.00 2.00 **◆** 1.29 1.00 ♦ 0.75 0.00 0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 Flow Rate (SCFM)

Flow Rate	<u>Differential Pressure</u>
116	0.75
232	1.29
347	2.22
463	3.48
578	5.15

JM

4/27/2023

Test #: 886-R115pleat27g

Sample #:

Filter #: KF-1085D, 115 pleats, 27g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Test Description: 75-5085 with Snap-In Lid, KF-1085D 115 pleat 27g oil, MAF Plug, Box Plug

S FILTERS
BREATHE DASY. YOUR BYONE & MARDANLY ARE PROTECTED.

Test Conditions

Barometric Pressure: 28.81748 in. Hg
Air Flow Type: SCFM
Number of Pleats: 115

Flow Direction:

Relative Humidity: 54 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve 7.00 Pressure Diff. (in. H2O) 6.06 6.00 5.00 4.00 3.00 2.49 2.00 1.41 1.00 ♦ 0.78 0.00 0.0 100.0 200.0 300.0 400.0 500.0 600.0 700.0 Flow Rate (SCFM)

Flow Rate	<u>Differential Pressure</u>
115	0.78
232	1.41
347	2.49
464	4.04
578	6.06

Air Filter Full Life Efficiency Test Report

Test #: 886-CE115pleat27g

Sample #:

Filter #: KF-1085D, 115 pleats, 27g oil Housing #: 75-5085 with Snap-In Lid

Date Code:

Operator: JM Report Date: 4/27/2023

Filter Mfg.: Housing Mfg.:



Test Description: 75-5085 with Snap-In Lid, KF-1085D 115 pleat 27g oil, MAF Plug, Box Plug

Test Conditions

53 % **Barometric Pressure:** 28.793 in. Hg **Relative Humidity:** 580 SCFM Type of Dust: A4 Course Air Flow Setpoint: **Test Procedure:**

Air Flow Type: SCFM **Test Endpoint:** 10 in. H2O **Number of Pleats:** 115

Flow Direction:

Batch #: 14057C Temperature: 69 deg. F **Initial Add Rate:** NaN g/min **Accumulative Add Rate:** 16.42 g/min

Pleat Depth: in.

Test Results

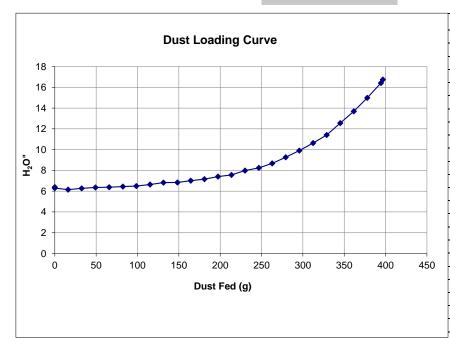
Initial Delta P 6.02 in. H2O **Accumulative Capacity:** 381.00 g **Test Time:**

24.15 min

	Initial	Accumulative	Э
		Kit	Blanket
Start		4959.20	587.26
End		5340.20	588.55
Gain		381.00	1.29
Efficiency		99.66%	

Standard Restriction

Pressure Differential



Duet Leading Come Data		
Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	6.299	
16.049	6.148	
32.506	6.269	
49.151	6.357	
65.817	6.38	
82.332	6.448	
98.616	6.492	
115.133	6.641	
131.405	6.828	
148.323	6.839	
164.438	7.005	
180.996	7.159	
197.287	7.407	
213.676	7.57	
230.061	7.981	
246.71	8.242	
262.893	8.67	
279.227	9.262	
295.598	9.912	
312.413	10.638	
328.719	11.408	
345.155	12.556	
361.609	13.688	
377.824	14.988	









Test #: 753 **Sample #:** 15 Filter #: FA-1927

Housing #: 17-19 POWERSTROKE STOCK

Date Code: 43636

BEN L 7/20/2020 FORD MOTORCRAF **FORD**



Test Description: STOCK AIRBOX AND FILTER RESTRICTION

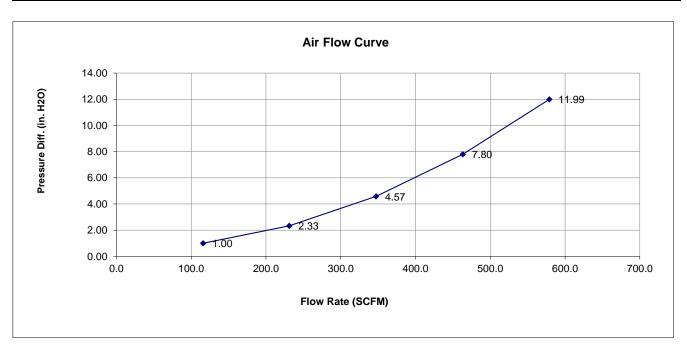
Test Conditions

Barometric Pressure: 28.8439 in. Hg Air Flow Type: SCFM

Number of Pleats:

Relative Humidity: 50 % Temperature: 77 deg. F Pleat Depth: in.

Flow Direction:



Flow Rate	<u>Differential Pressure</u>
116	1.00
231	2.33
347	4.57
463	7.80
579	11.99

Air Filter Full Life Efficiency Test Report

Test #: 438 Sample #: 2 Filter #: FA-1927 Housing #:

Date Code:

Operator: SD Report Date: 8/10/2017 Filter Mfg.: Housing Mfg.:



Test Description: STOCK INTAKE AND FILTER, NO SENSOR, FILTER MINDER INSTALLED, SNORKEL INSTALLED

Test Conditions

Barometric Pressure: 28.761 in. Hg
Air Flow Setpoint: 580 SCFM

Test Procedure:

Air Flow Type: SCFM
Test Endpoint: 10 in. H2O

Number of Pleats: Flow Direction: Relative Humidity: 48 %
Type of Dust: A4 COARSE
Batch #: 13240C

Temperature: 68 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 16.42 g/min

Pleat Depth: in.

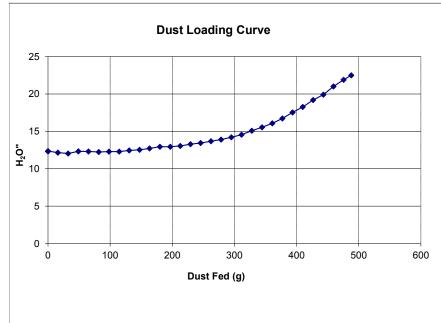
Test Results

Initial Delta P 12.46 in. H2O Accumulative Capacity: 487.30 g

Test Time: 29.74 min

	Initial		Accumulative)
		Blanket		Blanket
Start			5467.70	147.67
End			5955.00	148.94
Gain			487.30	1.27
Efficiency			99 74%	

Standard RestrictionPressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	12.355		
15.986	12.155		
32.326	12.036		
48.844	12.329		
65.125	12.298		
81.58	12.236		
98.029	12.282		
114.551	12.283		
130.726	12.436		
147.234	12.531		
163.49	12.712		
180.131	12.931		
196.67	12.936		
212.895	13.043		
229.33	13.276		
245.488	13.438		
262.295	13.676		
278.605	13.903		
295.055	14.199		
311.379	14.542		
327.957	15.085		
344.342	15.536		
360.887	16.075		
377.182	16.73		



