

JONELL activated carbon products are specifically designed to attend the toughest applications the oil and gas industry has to offer. By using only the highest quality materials and the most robust designs, JONELL guarantees a finished product second to none.

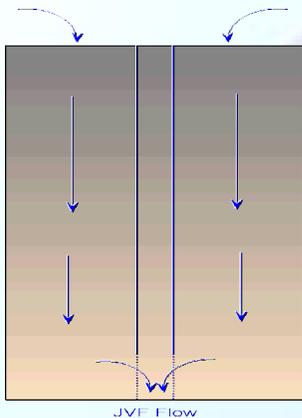
Jonell Activated Carbon is specially selected to maximize performance in gas processing applications where the target contaminant is long chain hydrocarbon molecules. Used in all Jonell Carbon Canisters, it is also available in bulk form, in 44 lb bags, and 880 lb super sacks.

JVF Series

Jonell Vertical Flow Activated Carbon Canisters increase fluid contact by eliminating the potential bypass in using the relatively thin bed available in a radial flow configuration. Jonell JVJF 1120 and 1122 canisters outlast the radial flow design by 30%. Solid sidewalls indicate vertical flow construction.

JVF Dimensions

Model	OD	HT	ID
JVF 1120-C	10.75	20.25	2.06
JVF 1122-C	10.75	22.25	2.06
JVF 636	6	36	NA
JVF 636-610	6	36	NA



JVF and JRF Carbon Canisters

JRF Series

Jonell Radial Flow Activated Carbon Canisters present a greater superficial area to the process fluid, lowering velocity to better deal with high solids contamination. Perforated sidewalls indicate radial flow construction.

JRF Dimensions

Model	OD	HT	ID
JRF 1120-C	10.75	20.25	2.06
JRF 1122-C	10.75	22.25	2.06
JRF 720	6.63	20	1.5
JRF 722	6.63	22.5	1.5

** The maximum recommended operating temperature for carbon is generally 120°F as exceeding 150°F can greatly reduce capacity in hydrocarbon capture levels.*



JVF and JRF SERIES

Comparison to Leading Lignite

Greater than 8 mesh, %	5 max.	5 max.
Less than 30 mesh, %	5 max.	5 max.
Apparent Density, g/cc	0.35-0.37 typ.	0.38 typ.
Apparent Density, lb/ft ³	21-23 typ.	24 typ.
Backwashed and Drained Density, lb/ft ³	20 typ.	21.5 typ.
Hardness Number	90 typ.	60 typ.
pH Water Extract	8-8.5 typ.	4.5 typ.
Moisture as Packed, %	5 max.	12 max.
Iodine Number, mg/g	1000 min.	500 min.
Molasses Number	400 typ.	400 typ.
Total Ash Content, %	12	20

Hardness

The hardness number is a standard test recognized by ASTM to determine the hardness of a given carbon. Leading lignite based carbon manufacturers do not use a specification per the ASTM standard test method and instead use a non-standard abrasion resistance test. Should an ASTM hardness number be tested on leading lignite based activated carbon, a value of 60 should be expected. Therefore, the JONELL activated carbon hardness number of 90 is significantly harder translating to less particle attrition and carbon fine generation during transportation, replacement, and use. In the right quantity, coal fines can contribute to foaming issues; always remember to use an accepted rinsing procedure reducing procedure for the best service possible from your activated carbon.

Pore Structure

Molasses numbers are good indicators for predicting how well an activated carbon will adsorb higher molecular weight organics. Leading lignite based carbon manufacturers use a non-standard tests. The Jonell molasses number is based on a standard test. A molasses decoloring efficiency (DE) of 85 converts to a molasses number of approximately 400.

The iodine number is an excellent parameter to determine the overall surface area of activated carbons, but it also is a great indicator of how well a carbon will adsorb organics. JONELL activated carbon has a minimum iodine number of 1000, while the leading lignite based 8x30 mesh carbons are approximately 500. Our activated carbon has an iodine number double to that of the leading lignite based 8x30 allowing for superior adsorption capability.

What Else ?

JONELL activated carbon is not acid washed, it will not decrease the pH of an Amine stream. Also, As the ash content of the leading lignite based carbon is almost twice that of the JONELL carbon, there is a much higher potential that compounds within this ash may dissolve within the fluid being treated. JONELL activated carbon contains 7% less water than the leading lignite based activated carbon. Less water translates to more carbon in every shipment.



Jonell Vertical Flow
Jonell Radial Flow



Size



Specialty
Engineered

** For Specialty or Custom Engineered Products and Solutions... Consult Factory*



Visit us at www.Jonellinc.com

For questions about filtration applications, replacement needs or help troubleshooting process and filtration issues contact an approved JONELL representative.

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