



TECHNICAL DATASHEET

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Jacobi
THE CARBON COMPANY

AddSorb® VQ1

extruded coal based
activated carbon

Features and Benefits

- Chemically impregnated
- Consistent quality
- Exceptional hardness and strength
- Rigorously dedusted
- Maximum mercury loading capacity
- Minimal product degradation giving low pressure drop
- Clean handling at adsorber loading and commissioning
- Proven adsorbent - total reliability

Typical Applications

- Natural gas - corrosion prevention
- Waste incineration
- Fluorescent lamp recycling
- Chloralkali electrolysis
- Mercury recovery - retort process

Available Pellet Diameters

- 2.0 mm diameter
- 3.0 mm diameter
- 4.0 mm diameter
- 5.0 mm diameter

AddSorb® VQ1 is a high activity extruded activated carbon manufactured by steam activation from select grades of anthracite coal. AddSorb® VQ1 is chemically impregnated specifically for use in the control of mercury. The carefully controlled addition of elemental sulphur to the matrix of the activated carbon is specifically designed to ensure maximum mercury loading capacity, while operating to the strictest removal efficiencies demanded by the industry. The activated carbon is exceptionally hard and resistant to mechanical breakdown resulting from a unique blending and extrusion process during its manufacture. AddSorb® VQ1 is especially suited to the removal of mercury from natural gas, in order to prevent the corrosion of aluminum heat exchangers.



Energy plants and waste to energy plants rely upon AddSorb® VQ1 activated carbon for the efficient and economical removal of mercury from gas streams and flue gases.

Specification*

CTC activity (base carbon)	min. 60%
Moisture content	max. 5%
Total ash content (base carbon)	max. 12%
Ball-pan hardness	min. 95%
Sulfur content	min. 12%

Standard Packaging

- 25 kg bag (55 lb)
- 500 kg bulk bag (1100 lb)



The polyethylene valve bag from Jacobi sets the standard in the industry for clean, durable and safe handling.

Typical Properties*

Apparent density	560 kg/m ³
Pellet diameter	± 10% diameter

* Specifications and typical properties are produced using Jacobi Carbons' test methods. They are listed for informational purposes only and not to be used as purchase specifications. Sales specifications can be obtained from your Jacobi Carbons Technical Sales Representative and should be reviewed before placing an order.

ADDVQ1-DSE-C0904



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Polyethylene valve bags,
20 bags per pallet.



Polypropylene liner-free
FIBCs (super sacks),
2 bags per pallet.

CAUTION Activated carbon is a strong oxidizing agent and can remove oxygen from air under wet or humid conditions. Care should be taken when entering confined spaces where wet activated carbon is present. Ensure the use of correct breathing apparatus. Material Safety Data Sheets should be consulted for further details on procedures in the event of contact with activated carbon.

NOTICE Due to the progressive nature of the Jacobi Carbons Group and the continually improving design and performance of our products, we reserve the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for customer's use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

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