



# AddSorb<sup>®</sup>

## Technical Datasheet



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## AddSorb<sup>®</sup> VQ1

### Impregnated coal based activated carbon



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

AddSorb<sup>®</sup> VQ1 is a high activity extruded activated carbon manufactured by steam activation from select grades of anthracite coal. AddSorb<sup>®</sup> 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 industry. The activated carbon is exceptionally hard and resistant to mechanical breakdown resulting from a unique binding and extrusion process used during its manufacture. AddSorb<sup>®</sup> VQ1 is especially suited to the removal of mercury from natural gas, in order to prevent the corrosion of aluminium heat exchangers.

#### Features

- Chemically impregnated
- Consistent quality
- Exceptional hardness and strength
- Rigorously dedusted

#### Benefits

- Maximum mercury loading capacity
- Proven adsorbent - total reliability
- Minimal product degradation giving low pressure drop
- Clean handling at adsorber loading and commissioning

#### Standard Packaging

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

#### 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

#### 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%

#### Typical Properties

CTC activity	..... 63%
Apparent density	..... 560 kg/m <sup>3</sup>
Pellet diameter	..... +/- 10% diameter

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



Jacobi Carbons reserves the right to modify specifications without prior notice. To obtain a full sales specification with test methods, please contact your nearest Jacobi Carbons office.