



## Mercury Removal Adsorbent

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### Product Information

Hg-A-CR® (a hydro carbon Condensate Resistant version of Hg-A) is a pelleted, steam activated carbon which has been impregnated for removal of mercury vapor from natural gas and hydrogen streams. This product is available in 3mm and 4mm diameter pellets, and in special particle sizes tailored for specific applications. Product packaging is available in fiber drums, on pallets of four drums per pallet, in 50 lb sacks, and in 1,100 lb supersacks.

### Applications

Hg-A-CR is designed to remove elemental mercury vapor from air, hydrogen, natural gas, and other gas streams where hydro carbon condensate is present. Hg-A-CR has proven its capacity for mercury and ability to achieve less than 0.1 PPB (V) ( $1\mu\text{g}/\text{Nm}^3$ ) mercury vapor effluent concentrations in commercial installations.

For recommendations on your specific application, call SME Process Solution, (281) 440-7350

For price and shipment information contact your Area Sales Representative:

### SME Process

#### Solution

6715 Theall  
Houston, TX 77066  
Phone (281)440-7350  
Fax (281)440-7353

Information presented herein is believed to be accurate and reliable but does not imply any guarantee or warranty. Nothing herein shall be construed as an invitation to use processes covered by patents without proper arrangements with individuals or companies owning those patents.

### Hg-A Adsorbent: Typical Properties

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#### Physical Properties

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Surface area, base carbon N <sub>2</sub> BET (ASTM D2854)	1,000 m <sup>2</sup> /gm, minimum
Hardness (ASTM D3802)	97%
Proprietary Impregnate content	13 – 14 weight %
Moisture content (ASTM D2867)	3 weight %, maximum
Packed bulk density	34 lbs/ft <sup>3</sup> (550 kg/m <sup>3</sup> )

#### Chemical Properties

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Carbon tetrachloride activity, Base carbon(ASTM D3467)	60 weight %, typical
PH (ASTM D3838)	6 – 8
Actual mercury capacity to 99% removal from H <sub>2</sub>	65 weight %
Recommended adsorption contact time, at <70%RH	15 seconds
Effluent mercury concentration	<0.1 PPB (V) (<1 $\mu\text{g}/\text{Nm}^3$ )

**CAUTION: OXYGEN IS REMOVED FROM AIR BY WET ACTIVATED CARBON. ASPHYXIATION HAZARD EXISTS INSIDE VESSELS.**

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