SPECIFICATIONS						
	Diameter	Length	Density	Sulfur Loading Capacity		
	(mm)	(mm)	(lbs./ft ³)	(wt%)	(Ibs Sulfur / Ib of cg)	(lbs Sulfur / ft ³ of cg)
Cg4	4.5	5-15	51.27	> 25%	0.25	12.8
Cg5	2.5	3-12	52.55	> 25%	0.25	13.1
Packaging	Cg4 and Cg5 are shipped in 2000 pound Super Sacks. (Cg4 at 39ft ³ and Cg5 at 38ft ³)					



Rev. 06: 2/2012



ACP Technologies Inc.

ACP Technologies Inc., an international chemical technology developer, has been providing Sulfur Adsorbents to the natural gas industry in Canada, the US, and overseas for over 15 years. ACP continues development of its desulfurization technologies with several potential enhancements undergoing field testing.

ACP, on behalf of its distributor, Univar, carries inventory of its CQ4 and CQ5 desulfurization material in Canada and the US.

In addition to this technology, ACP has developed technologies for the costeffective removal of VOCs, for the direct oxidation production of Hydrogen Peroxide, and for production of Carboxylic Acids.

www.acp-cg.com



CG4 and CG5 are distributed exclusively in North America by Univar Inc.

2600 So. Garfield Ave. Commerce, CA 90040 • (323) 837-7130 univarusa.com



DRY H₂S REMOVAL SYSTEM

CLEAN-GAS







THE CLEAN-GAS FAMILY OF PRODUCTS

ACP Technologies provides a superior dry pelletized adsorbent material for the safe and efficient removal of Hydrogen Sulfide (H₂S) from gas streams. CQ4 is a large pellet that is typically specified when pressure drop is a guiding parameter. In all other situations, we recommend our smaller pellet - CQ5. Both products are constituted of the same material and work in exactly the same way.

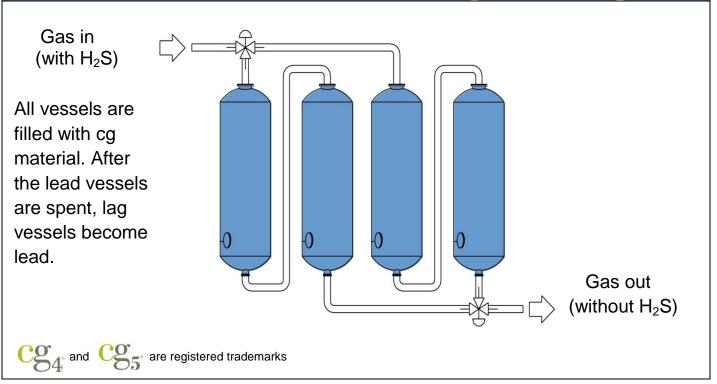
APPLICATIONS FOR Cg4 AND Cg5

CQ4 and CQ5 are specifically formulated for applications where Hydrogen Sulfide (H₂S) concentrations range from very low to 2,500 ppm and where sulfur removal of up to 500 pounds per day is desired. Typical uses include:

- Primary Gas Sweetening and Sales
- Gas Storage
- Fuel Gas for Compressor Stations
- Gas Plants

- Instrument and Control Gas
- Vent Gas

LEAD / LAG DESIGN FOR CG4 AND CG5



FEATURES & BENEFITS OF cg4 AND cg5

- **Removes H₂S** and most mercaptans from gas streams.
- competing products).
- handle; hence, lower run costs.
- the vessel, and vessels are easy to clean.
- maintains its integrity over the length of run.
- Manufactured product; hence, predictable performance.
- piping and vessels.

HOW cg4 AND cg5 WORK

CQ4 and CQ5 are true adsorbents with high surface capacity, able to chemically bond with the H₂S in the gas stream. The pellets are not coated and contain adsorptive capacity to the core of the pellet.

As the sorbent works, it reacts with the gas and turns into iron sulfide $Fe_2O_3+3H_2S \rightarrow Fe_2S_3+3H_2O$

The ideal process conditions for the reaction are: Inlet stream temperatures from 32°F to 140°F Ambient temperatures from -35°F to 140°F Relative humidity 85-100%

Optimum Vessel Sizing (Height to Diameter) 3:1 to 6:1

Gas flow velocity, gas composition, H₂S concentration, temperature, and pressure all affect the length of the working zone.

• High capacity provides longer runs (often 2 to 2.5 times as long as

• Longer run times mean fewer change-outs and less waste product to

• Does not agglomerate in the vessel; spent granules flow easily out of

• Forgiving; can tolerate water and O₂ gas in the flow stream. Product

• Environmentally Safe. Non-toxic, odor-free, and no leachable heavy metals. Non-pyrophoric under prescribed handling conditions. Can be disposed of inexpensively (even land farmed in some jurisdictions).

• Slightly alkaline product reduces potential corrosion of carbon steel