

STANDARD ISSUE



GRAND OPENING OF THE DCG ANALYTICAL LABORATORY



About DCG

Houston based DCG is an international leader in gas and liquid standards for the hydrocarbon, natural gas and refining industries. Because precision based calibration of analytical instruments is imperative in today's market, DCG takes pride in every step of manufacturing calibration standards from the choice of the raw product to the meticulous blending of the gases or liquids, to the complete final analysis and certification.

DCG chemists have developed specialized gravimetric and analytical techniques to manufacture standards for chemists employed in research, education and production facilities worldwide. To use these standards correctly, DCG provides its clients with technical assistance in method development according to ASTM and ISO standards.

DCG stands apart from the competition because of the time taken to define our Primary Reference Standards and to make a point to address every source of uncertainty in that definition. Every effort has been made to make the highest quality standard possible, from the highest quality raw materials to the experienced chemists performing the blending and analysis. This attention to detail is why DCG is The Premier Manufacturer of Calibration Standards and Reference Materials.



LAB OPENING SPECIALS

- 10% OFF - CPC's in Stock
- 5% OFF - Premier Quality or Custom Standards
- 10% OFF - DCG School of Chromatography
- 15% OFF - Specialty Analytical Services

Expires 10/31/2010

DCG's belief is providing the best!

DCG's three new laboratories have been in the making for the past four years, with focus on the State-of-the-Art Analytical Lab.



It's increasing DCG 's global competitiveness begins first by providing it's chemists with the tools needed to enhance their jobs.

Why is Quality so important to DCG?

When we look at our customer base over the last 20 years, and we envision the future of where DCG is headed, the answer is simple. DCG began with the notion of quality for those that value the finest and best in



calibration standards and products. That opinion is still the keystone of DCG.

We continue to grow with loyal clients, many who began with us 20 years ago, while others who have joined us through the years. We



want you to know how serious we are about offering quality products and delivering exceptional customer service. We value our relationship with our clients. We want you to know DCG's belief in providing the best!



DCG's New Up and Running State-of-the-Art Analytical Laboratory



DCG chemists have developed specialized gravimetric and analytical techniques to manufacture standards for chemists employed in research, education and production facilities worldwide. To use these

standards correctly DCG provides its clients with technical assistance in method development according to ASTM and ISO standards.

Quality in research and analysis is extremely important in an ever rapidly evolving and dynamic petroleum industry. With many companies scaling back their in house analytical personnel, DCG is fully committed to helping these companies with their on-going analytical requirements with the most current technologies available. It is imperative that all research and testing results be accurate and precise.



“DCG makes this possible with its state-of-the-art equipment. The new up and running Analytical Laboratory will stimulate more research productivity at our facility, making it easier for the development of new products.

We have increased the analytical research service capabilities of our clients and expanded our on-going educational programs and projects with universities” states Alejandro Gonzalez, Director of Research. ”



“The addition of the new laboratories has enabled us to add new tangible products that are available to the customer. With the new space we have been able to add more instruments to help grow the Research and Development Department and the School of Chromatography. Our R & D group

has some of the finest instrumentation that is available on the market today. Our customers can be assured that they are receiving a premier quality calibration standard.”

Lori Bozdech, DCG Director of Customer Service

As more locations are cutting their Research & Development departments, our clients have the confidence in DCG to pick up some of their tasks with the completion of the Analytical



Laboratory. This in turn has led to proprietary standards which are manufactured in our newly expanded Production Facility. Clients have noticed the improved turn around time with the increased efficiency on all of our Premier Calibration Standards.” states Roy Rodriquez, DCG Client Liaison.



Those of you that use DCG's calibration standards might have noticed that our quotations and certificates include a quality statement that reads “Primary Reference Standard, ± 1% or less

gravimetric uncertainty per component. NIST Traceable by weight with the gravimetric values verified by one or more analytical techniques - NIST Certificate #'s:

- 822/266926-02,
- 822/272801-06,
- 822/274081-06.

Where applicable, this Reference Standard meets or exceeds the following guidelines: ISO 6142, ISO 6143, GPA 2198, API 14.1.6.2 and API 14.1.6.3.”



This statement assures that you are receiving one of the finest, if not the finest, quality calibration standard available on the market today!



Calibration Standards are one of the most important pieces of your measurement puzzle.

Despite the importance of quality calibration standards some people continue to view them as expensive cylinders of gases or ampoules of liquids that serve limited purpose.

All calibration standards are the same, aren't they? They're a commodity just like carrier gas or welding gas, right? We get a certificate from the manufacturer that tells us what's in the cylinder, don't we?

The answer to these questions are no. Is there a difference in the quality of standards prepared by different manufacturers or even the same manufacturer? How do you know if you are getting what you paid for? The bottom line is; it all comes down to two things: uncertainties and preparation technique.



There are several ways to prepare a calibration standard -gravimetric, volumetric and pressure blending. Gravimetric blending is the most accurate followed by volumetric and lastly pressure. However, there are different qualities of gravimetric blending available on the market today. Simply weighing in each component does not get you an accurate standard.



There are several factors which affect the true gravimetric uncertainty of a calibration standard, they are: raw product impurities, lost mass, the uncertainty of the masses used to calibrate the balances, the uncertainty of the balances used in preparing the calibration standard and lastly balance selection.



“The addition of the Analytical Laboratory will help our production in many ways. The added space will allow for more instruments to be installed for dedicated purposes. In the past it was necessary for research and production to be done on the same instruments. Now we have enough room to have separate specialized instruments for these purposes. This will allow us to maintain and trouble shoot the instruments in production more easily, as each instrument will be dedicated to each type of standard. It also gives us more space in our Cylinder Standards Laboratory for more balances to be dedicated to specific uses, such as balances specifically for sulfur service and cylinder standards and another floor balance for natural gas standard production only.

Jeffrey J. Werner, DCG COO



“The blending chemists are much appreciative of the new found elbow room resulting in order, accuracy and precision. With this new found space it allows room for a second floor balance. The newly added vacuum

system has increased the number of vacuum stations which in turn increases standard manufacturing productivity. We have also added dedicated high sensitively low load balances in our newly renovated liquid standard laboratory” states Andrea Gooden, DCG’s Senior Production Chemist-Trainer

DCG ULTRA PROTECTION CYLINDER HEAT BLANKETS

DCG offers excellent cold protection for your DCG Standard. Each blanket is custom made, assembled by hand in our laboratory by Yvonne Salazar, DCG’s Manager of Heated Products.



All contain top-of-the-line heating, power, and safety features, such as closed cell foam insulation, heater cables which automatically adjust for superior temperature control, stainless steel buckles, PTFE coated fabric, and hooks and closure flaps gives durability and heat retention.



Visit us On-line

www.dcgpartnership.com



Our new Liquid Standards Laboratory

The new Liquid Standards Laboratory is dedicated to only preparation of liquid hydrocarbon standards.



Here DCG prepares standards in ampoules and bottles. DCG offers a vast and growing line of liquid standards in ampoules and bottles, including but not limited to:

Sulfur

- Total Sulfur
- Total Sulfur and Total Nitrogen
- Trace Sulfur and Nitrogen in Aromatic Hydrocarbons
- Speciated Sulfur
- Sulfur Simulated Distillation
- Low and Ultra Low Sulfur in Diesel Specialty
- Total Fluoride
- Total Nitrogen
- Low level Oxygenates



Total Chloride

- HPLC-CLND System Suitability
- DHA
- EN14105 & EN14110

ASTM Methods

- D3606, D5580 & D6277
- D4735 & D7011
- D4815, D5599 & D3710
- D2887
- D6069
- D6730
- D5501 & D6584



As always, DCG Custom Standards are available upon request.

Our newly remodeled Cylinder Standards Laboratory

Our cylinder Standards Laboratory has more than doubled in size with the addition of the Analytical Laboratory and Liquid Standards Laboratory.



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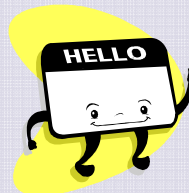
DCG: Meet and Greet & School Schedule

September:

- Sept. 20-23 ASGMT - Houston TX
- Sept. 13-17 GC School, DCG Office

October:

- Oct. 4-7 API - Westminster, CO
- Oct. 4-8 GC School, DCG Office
- Oct. 12-14 Gulf Coast Conference - Galveston TX
- Oct. 18-22 Method Development, DCG Office



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