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Rohrback Cosasco: Industrial Corrosion Control Management & Monitoring Solutions

Website www.cosasco.com **PRESS RELEASE**

SUBJECT: Rohrback Cosasco Systems launch new bio-probes for monitoring microbiologically influenced corrosion (MIC)

FOR IMMEDIATE RELEASE Thursday, September 24, 2009

Rohrback Cosasco Systems now offers both retractable and retrievable bio-probes for monitoring microbiologically influenced corrosion (MIC). Corrosion monitoring Bio-probes offer plant operators a simple and effective tool for collecting samples for subsequent microbiological analyses in systems susceptible to MIC. Microorganisms, including bacteria, algae, and fungi can accelerate the corrosion process up to 1000 times. MIC is often undetected in many industrial systems but its importance should not be underestimated or ignored. If MIC goes undetected, it may erroneously result in increased inhibitor use in an attempt to reduce the corrosion. MIC must first be controlled by correct biocide treatment and the metal surfaces kept clean so that corrosion inhibitors protect the metal surfaces from general corrosion.

MIC is associated with localized attack, including pitting corrosion, crevice corrosion, stress corrosion cracking, and differential aeration cells. Microbiological induced corrosion occurs in virtually every aqueous environment such as water treatment and sewage handling and treatment plants. MIC can also occur in oil & gas systems, chemical processing plants, and underground pipelines. The most common and damaging type of bacteria found in oil and gas applications are Sulfate Reducing Bacteria (SRB). SRBs chemically reduce sulfates to sulfides, producing corrosive compounds, such as hydrogen and iron sulfides. Plant operators use biocides to kill the corrosion causing bacteria and other microorganisms in order to prevent or reduce corrosion. Physical cleaning or mechanical cleaning can control the effects of microbiological induced corrosion. However bio-probes are required for verification and adjustment of the treatment for effectiveness is recommended.

Cosasco Model 6205 and 6215 bio-probes provide an economical and safe means of collecting samples of sessile bacteria deposited on the metal surface in the process. The bio-probes have five sample elements, each with an exposed frontal area of 1cm². Each time a sample is required for analysis a successive element is removed and replaced with a new one, leaving the other four in place. With this successive change of elements, a longer exposure is obtained for each element, but still permits a relatively frequent sample to be taken for analysis.

Early detection is the key to controlling microbiologically influenced corrosion once it has infected the system. Once the microorganisms have formed a bio-film, they become more resistant to biocides and can rapidly grow if not detected and controlled. Cosasco **Model 6205 and 6215** retrievable and retractable bio-probes offer:

- Simple and economical means of collecting bacteria samples for corrosion monitoring

- Indicator of level of microbiologically induced corrosion for the correct level and effective use of biocide treatments. This significantly reduces costs and minimizes dangerous effects to environment
- Flush Probe with retrievable and retractable design ideal for frequently pigged pipelines
- Use in high or low pressure system, without the need for system shutdown

About Rohrback Cosasco

Rohrback Cosasco specializes in a complete range of Industrial Corrosion Control Management & Monitoring Solutions. Corrosion equipment is used for a range of internal corrosion monitoring, atmospheric monitoring, remote monitoring, downhole corrosion monitoring, rouge monitoring, erosion monitoring, and scale in water monitoring. Rohrback Cosasco is the known globally as the OEM for the following product brands Microcor®, Cosasco®, Corrosometer®, Corrater®, Corrdata® and Ultracorr®.

Additional corrosion Services include asset preservation consultancy, remote monitoring and data collection, field services inspection, maintenance and training.

These corrosion control products & services commonly used in oil and gas, petrochemical, water treatment, chemical, pulp and paper, and pharmaceutical industries. The company is ISO 9001: 2008 certified; the products conform to CE and ATEX standards.

For more information, please contact Rohrback Cosasco at sales@cosasco.com.



Cosasco® Corrosion Bio-Probes for Microbiologically Influenced Corrosion (300 dpi)



(72 dpi)



Retrievable Bio-probe positioned top of the line (300dpi)



(72 dpi)