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Laboratory Report - 19 Dec., 2001

HALLSDALE POWELL UD SAMPLE
COMPETITIVE MEDIA ANALYSIS
ODORCARB vs. COMPETITORS MEDIA

TEST RESULTS

	Odorcarb	**Competitor (carbon based)**
PH	10.1	9.5
Percent Water:	21.7	13.1
Crush Strength:	55.1	80.7
Hydrogen Sulfide Capacity (lbs/ft3):	**7.1**	**5.25**

COMPETITIVE MEDIA TEST METHODS

I. PH

A sample of the impregnated media is pulverized to a fine powder. The sample is covered with demineralized water. The PH is a indication of the media's neutralization potential.

II. Percent Water

A 10-gram sample of media is oven dried at 100 degrees Celsius for 1 hour, weighted and the weight loss is converted to percent water.

III. Crush Strength

A 100-gram sample of media is screened 3 1/2 x 6 mesh, then placed in a cylinder and compressed using 2000-PSI pressure for 1 minute. The sample is removed from the cylinder and again screened 3 1/2 x 6. The amount of sample retained is a measure of the crush strength of the media.

IV. Capacity

A humidified 1% hydrogen sulfide or sulfur dioxide in airstream is passed through a weighted bed, 9" deep and 1" in diameter, at a total flow rate of 1450 cc/min. This method is used to determine the media's capacity for treating a hydrogen sulfide or sulfur dioxide stream to a 50-ppm breakthrough. The removal capacity is expressed as the pounds of hydrogen sulfide or sulfur dioxide removed per cubic foot of media.

CONCLUSION

The Competitors media has a carbon base material that has reduced porosity which, in turn, reduces surface area available for chemical reaction, absorption and adsorption.

In contrast, the Odorocarb media is made from carbon and alumina that is processed and activated, which increases the media's porosity. During the media manufacturing process, statistical process quality control procedures ensure that closely prescribed parameters are followed for PH, percent water, crush strength and H_2S removal capacities. The Odorcarb's physical properties and performance characteristics are optimized.

Note: The capacity for Odorcarb to remove hydrogen sulfide is over 35 percent greater than the competitors media.

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