

Odor Neutralization Test Results Hydrogen Sulfide (H2S) & Ammonia (NH3)

In April 2021, a Chinese government laboratory tested Eco-Cat[™] for odor control, to measure reduction in hydrogen sulfide (H2S) and ammonia (NH3).

Location: The Institute of Analysis, Guangdong Academy of Sciences (China National Analytical Center, Guangzhou).

Method of Testing: At room temperature (20C) and normal pressure (1 standard atmospheric pressure), 15L hydrogen sulfde gas with a concentration of 0.15mg/m3, and a flow rate of 1L /min dose through a large bubble absorption tube with 10ml deodorant and non-circulated, the treated gas will be collected and the concentration of hydrogen sulfide will be analyzed. Testing was made on two sample dilution rates: 1:500 and 1:1000.

Results:

- 1: 500 dilution: Odor neutralization % efficiency: ammonia: 86.2%, hydrogen sulfide: 87.3%
- 1:1000 dilution: Odor neutralization % efficiency: ammonia: 86.7%, hydrogen sulfide: 88.8%

Conclusion: These results are quite impressive in non-circulated chambers. In actual operations, results are even better as the natural circulation increases Eco-Cat's[™] ability to neutralize the noxious gases. Eco-Cat[™] demonstrates substantially improved performance over conventional deodorants and essential oils, at a lower price.





检测报告

TEST REPORT

报告编号: Report №.:	2021003985-3 a			
委托单位:	尤尼威尔化学品(上海)有	「限公司		
联络信息: Contact Information:	上海市浦东新区张江高科技园 展想广场3号楼 Building 3, Sandhill plaza, 2290 Z Pudong new district Shanghai	区祖冲之路2290弄 uchongzhi Road,		
检 测 类 型: Test Type:	☑送检 ☑ Submitted by Customer	口抽样 □Sampling by NACC		
收样日期: Date of Sample Received:	2021-3-24 2021-3-24			
批准: Authorized signatory:	女子子 签发日期: Date for Reporting:	2021-4-8 2021-4-8		
广东省科学院测试分析研究所(中国广州分析测试中心) Institute of Analysis, Guangdong Academy of Sciences(China National Analytical Center, Guangzhou)				

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Remarks: The sample(s) submitted and related information are provided and confirmed by client, and NACC is not responsible for verifying its integrity and authenticity.

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地址: 广东省广州市先烈中路100号大院34号楼,510070

Address: Building 34, No.100, Xianlie Middle Road, Guangzhou, Guangdong, China, 510070

电话(Tel): (008620)37656880 传真(Fax): (008620)87685550

邮箱(Email): ywc@fenxi.com.cn 网址(Website): http://www.fenxi.com.cn





检测报告

TEST REPORT

报告编号: Report №.:	2021003985-2 a	
委托单位: Customer:	尤尼威尔化学品(上海)有限公司 Univar Solutions China Ltd.,	
联络信息: Contact Information:	上海市浦东新区张江高科技园 展想广场3号楼 Building 3, Sandhill plaza, 2290 Z Pudong new district Shanghai	区祖冲之路2290弄 uchongzhi Road,
检测类型: Test Type:	☑送检 ☑ Submitted by Customer	口抽样 □Sampling by NACC
收样日期: Date of Sample Received:	2021-3-24 2021-3-24	
批准:	→ → ☆ ☆☆日期。	2021 4 8
Authorized signatory:	Date for Reporting:	2021-4-8

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| 声明 Declaration

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地址: 广东省广州市先烈中路100号大院34号楼,510070

Address: Building 34, No.100, Xianlie Middle Road, Guangzhou, Guangdong, China, 510070

电话(Tel): (008620)37656880 传真(Fax): (008620)87685550

邮箱(Email): ywc@fenxi.com.cn 网址(Website): http://www.fenxi.com.cn

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а

8-Apr

报 告 检测

TEST REPORT

BOC天然异味净-1 样品名称: 报告编号: 2021003985-2 Sample Name: BOC Natural Deodorant-1 Report №.: 20210322 样品批号: 检测日期: 2021-3-24 至 2021-4-8 Sample Lot №./Batch №.: Testing Period: 24-Mar To 样品性状: 液体 500mL 样品数量: Sample Appearance: Liquid Sample Quantity 其他信息:

Other Information:

分析检测结果

Test Results

分析项目 Item	检测结果 Result		试验条件下的除臭 效率		
	处理前浓度 Concentration before treatment (mg/m ³)	处理后浓度 Concentration after treatment (mg/m ³)	Deodorizing efficiency under the test condition(%)	位测万法 Method	
氨 Ammonia	1.52	0.21	86.2	CU/T 516 2017/6 21	
硫化氢 Hydrogen sulfide	0.15	0.019	87.3	CJ/1 310-201//0.21	
		以下空白			
BLANK BELOW					
				IT A B	
常				型气泡吸收管, 聚集处理后的	
备注 气f	本,分析浓度,计算除臭效 der the normal temperature a	文率。 and pressure, the pollutant ga	as is collected through a	large bubble absorption tube with	
10	mL sample at 1 L/min flow r	ate, and the concentration of	f the treated gas is analy	zed to calculate the deodorization	
Note	ciency.			2)	

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检测报告

TEST REPORT

样品名称:	BOC天然异味净-2	报告编号:	20210039	85-3	а
Sample Name:	BOC Natural Deodorant-2	Report №.:			
样品批号:	20210322	检测日期:	2021-3-24	至	2021-4-8
Sample Lot №./Batch	1 №.:	Testing Period	: 24-Mar	To	8-Apr
样品性状:	液体	样品数量:		500n	nL
Sample Appearance:	Liquid	Sample Quanti	ity		
其他信息:					

Other Information:

分析检测结果

Test Results

	检测结果 Result		试验条件下的除臭			
分析项目 Item	处理前浓度 处理前浓度 Concentration before treatment (mg/m ³) 处理后浓度 Concentration after treatment (mg/m ³) 文学 Deodorizing efficiency under th test condition(%)	双卒 Deodorizing efficiency under the test condition(%)	检测方法 Method			
氨 Ammonia	1.58	0.21	86.7			
硫化氢 Hydrogen sulfide	0.16	0.018	88.8	CJ/1 510-2017/0.21		
以下空白						
	BLANK BELOW					
				、亦研究所一般		
				》 新分析测试		
 常温常压条件下,将污染物气体,以1L/min的流量,通过装有10mL样品的大型气泡吸收着分采集处理后的 各 注 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)						
Note 10	mL sample at 1 L/min flow r iciency.	ate, and the concentration of	f the treated gas is analy	zed to calculate the deodorization		