MA 2010002030P

Environmental Protection Center of Ministry of Transport

Test Report

JHJ, Zi No. 2012[05]

Name of Product: WOP Absorbent / Oil Detergent For Water

Inspected Unit: Hongkong Ananke Environmental Protection Technology Co., Ltd

Inspection Category: Authorization

Date of Issue: 16 April 2012

Declaration

1. This report shall be invalid without the special seal for test of Environmental Protection Center of Ministry of Transport.
2. This report shall be invalid without the signatures of the chief surveyor, verifier and approver.
3. This report shall be invalid in case of any alteration.
4. This report cannot be copied partially without the approval of our center.
5. The test result of submitted sample is only valid for the submitted sample (regardless of the sample source).
6. Any objection shall be submitted to our center within 15 days when the report is received, or we will not handle any overdue case.

Environmental Protection Center of Ministry of Transport (seal)

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Test Report

JHJ, Zi No.2012[05]

Principal: Hongkong Ananke Environmental Protection Technology Co., Ltd

Name of Production: WOP Absorbent / Oil Detergent for Water

Submission Time: 13 March 2012-09-01

Test Foundation: Please reference ASTM F726-99 Standard Test Method for Sorbent Performance of Adsorbents

1. Parameters of Test Liquid

Test Liquid	Principal Parameters
Diesel Oil	Model No.: Kinematic Viscosity (30°C) : 3.00 mm²/s; Density: 0.825 g/ml
Hydraulic Oil	Model No.: L-HM Antiwear Type; Kinematic Viscosity (30°C) : 79.5mm²/s; Density: 0.870 g/ml
Fuel Oil	Model No.: 1000 Seconds Fuel Oil

2. Instrument and Equipment, Environmental Condition and Instructions of the Sample Status:

Name of Principal Instrument and Equipment for Test	YP20002 Electronic Balance, Stopwatch and Incubator
Test Environmental Condition	Environmental Temperature: 22°C~25°C Environmental Humidity: 32%~49%
Description of the Sample's Status	The sample's status is white and granuliform adsorbent, which is made into the adsorbent package by black and meshy fabric. The test sample activated in the condition that is at 23±4°C and 70±20% of relative humidity no less than 24h.

3. Sedimentation Property

3.1 Dynamic and Hydrophil Sedimentation

The test sample (the adsorbent package) that has been weighted is put into the container with test water and sealed up. Then put the container on

the oscillator and oscillated for 15 minutes (oscillatory frequency is 150rpm/min, and the amplitude is 3cm), and place the test sample (the adsorbent package) quietly for 2 minutes, observe the sample's status and the condition of sedimentation.

Test result: The test sample (the adsorbent package) kept the original status and floated on the water. There wasn't any tiny particle leaked from the meshy fabric and the trail water was clear and clean.

3.2 Dynamic and Oil-absorbing Sedimentation

After Put a certain amount of oil into the container with test water, put the test sample (the adsorption package) into the container and sealed up. Then put the container on the oscillator and oscillate for 15 minutes (oscillatory frequency is 150rpm/min, and the amplitude is 3cm), after place the test sample (the adsorbent package quietly for 2 minutes, observe the sample's status and the condition of sedimentation in the oil-water mixture.

Medium	Test water + Hydraulic Oil	Test water + Fuel Oil
Test result	The test sample (the absorbent package) kept the original status. The particle in the absorbent package increased in volume and enlarged the adsorbent so that the adsorbent floated on the water that is clear and clean, and there was not any sedimental particle.	The test sample (the adsorbent package) kept the original status and floated on the water after absorbing the oil. The oil stick was steady and there was not any sedimental particle.

4. Absorption Property

4.1 Dynamic water absorption and oil absorption

Put the test sample (the adsorbent package) that has been weighted into the container with test water or oil (oil thickness is thicker than the adsorbent package thickness so that the sample <the adsorbent package> can float freely) and churn it for 30s with the glass rod. Quickly lift the sample after 15 minutes and weight it after draining it for 30s, then measure the absorbent property for water or oil.

Test Result:

Medium	Adsorption Capacity (g/g)
Water	0.79
Diesel Oil	2.46
Hydraulic Oil	5.34
Fuel Oil	9.32

4.2 Absorption for Oil Water Mixture

Put a certain amount of oil into the container with a certain amount of water (oil thickness is thicker than the adsorbent package thickness so that the sample <the absorbent package> can float freely), churn it adequately and place it quietly. Put the test sample (the adsorbent package) that has been weighted into the container and churn it for 30s with the glass rod, then seal it up. After 15min or put the container on the oscillator and oscillate for 24h (oscillatory frequency is 150rpm/min, and the amplitude is 3cm), quickly lift the sample (the adsorbent package) and weight it after draining it for 30s, then measure the absorbent property for oil.

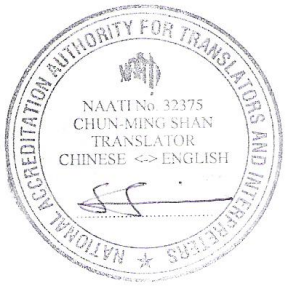
Medium	Adsorption Capacity for 15min (g/g)	Adsorption Capacity for 24h (g/g)
Water & Diesel Oil	3.19	3.93
Water & Hydraulic Oil	5.33	5.61
Water & Fuel Oil	7.14	7.78

5. The Information of the Sample

The Information of the Sample	Receipt No. of the sample: 2012-Yang-05 Sample No.: Cp2012005 Commissioned Agreemwnt No.: 2012-JC-07-Jin

Blank Blow:

Surveyor: Zhang Zhiming (Signature) Date: 13 April 2012
Verifier: (Signature) Date: 13 April 2012
Authorized: (Signature) Date: 16 April 2012



2010002030P

交通运输部环境保护中心

检 测 报 告

交环检字 2012[05]号

产品名称：WOP 吸附剂

受检单位：香港安洁环保科技有限公司

检验类别：委 托

发出日期：2012 年 4 月 16 日

声　明

1. 本报告无交通运输部环境保护中心检测专用公章无效。
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6. 对本报告若有异议，应于收到之日起十五日内向本中心提出，逾期不予办理。

交通运输部环境保护中心

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检测结果：被测样品（吸附包）保持原有状态，漂浮于水面上，无细小颗粒漏出，试验用水清澈透明。

3.2. 动态吸油沉降

在盛有试验用水的容器中加入一定量的油品，将称重后的被测样品（吸附包）放入试验容器中，密封。然后将试验容器放在振荡器上振荡 15min（振荡频率 150rpm/min，振幅 3cm）后，待容器中的被测样品（吸附包）静置 2min，观察被测样品状况及在油水混合物中的沉降情况。

介质	试验用水+液压油	试验用水+燃料油
检测结果	被测样品（吸附包）保持原有状态，吸油后吸附包内的颗粒体积增大，将织网全部撑起，吸附包浮于水面，水面仍漂浮着细小油膜，水体透明，无沉降颗粒。	被测样品（吸附包）保持原有状态，吸油后漂浮在液面上。水面上的油膜稳定，无沉降颗粒。

4. 吸附性能

4.1 短时间动态吸水及吸油量

将称重后的被测样品（吸附包）放入盛有试验用水或油品的容器中（油层厚度大于吸附包厚度，被测样品<吸附包>能自由漂浮），用玻璃棒搅动 30s，15min 后将样品迅速提起，沥干 30s 后称重，测定样品对水或油品的吸附性能。

检测结果：

介质	吸附量（g/g）
水	0.79
柴油	2.46
液压油	5.34
燃料油	9.32

4.2 油水混合物的吸附

在盛有一定量试验用水的容器中，加入一定量的油品（油层厚度大于吸附包厚度，样品<吸附包>能自由漂浮），充分搅拌后静置。将称重后的被测样品（吸附包）放入容器中，用玻璃棒搅动 30s 后，密封，15min 后或将容器放在振荡器上振荡 24h（振荡频率 150rpm/min，振幅 3cm）后，迅速将被测样品（吸附包）提起，沥干 30s 后称重，

测定样品对油品的吸附性能。

介质	15min 吸附量（g/g）	24h 吸附量（g/g）
水+柴油	3.19	3.93
水+液压油	5.33	5.61
水+燃料油	7.14	7.78

5. 样品信息

样品信息	样品接收单编号：2012-样-05；样品编号为 CP2012005； 委托协议书编号：2012-JC-07-进

以下空白

检测人员：[illegible]　　校核人员：[illegible]　　授权签字人：[illegible]

日　期：2012年4月13日　日　期：2012年4月13日　日　期：2012年4月16日