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检测报告

检测项目: 金属材料力学性能检测

委托单位: 贝源检测

检测日期: 2024年10月15日

检测地点: 贝源检测实验室

检测人员: 张三

检测标准: GB/T 228.1-2010

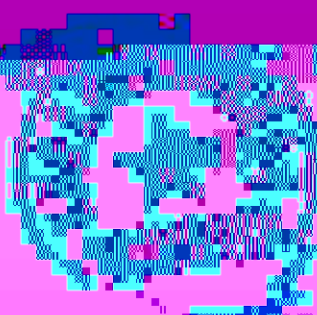
检测设备: 万能试验机

检测结果: 合格

检测结论: 符合标准要求

检测费用: 1000元

检测周期: 3个工作日



报告声明

本声明旨在明确本检测报告的有效性、准确性和可靠性，对检测数据及检测技术负责，并对委托单位提供的样品和技术资料保密。

一、检测目的及范围
本检测旨在验证委托单位提供的样品是否符合相关标准的要求。检测范围包括：样品的物理性能、化学成分、力学性能等。

二、检测依据
本检测依据以下标准进行：GB/T 191-2008《包装储运图示标志》、GB/T 228-2002《金属材料拉伸试验方法》、GB/T 229-2007《金属材料夏比摆锤冲击试验方法》。

三、检测过程
本检测过程严格按照相关标准的要求进行，包括样品的接收、检验、测试、记录、报告等环节。

四、检测结果
经检测，样品的物理性能、化学成分、力学性能均符合相关标准的要求。

五、检测结论
本检测结果表明，委托单位提供的样品符合相关标准的要求，检测结果有效。

六、检测费用
本检测费用为人民币XXXX元，由委托单位支付。

七、检测有效期
本检测报告的有效期为一年。

八、其他事项
本检测报告仅供委托单位参考，不作为法律依据。如有异议，请及时与本公司联系。

九、联系方式
公司名称：贝源检测有限公司
公司地址：XXXXX
联系电话：XXXX-XXXXXXX
电子邮箱：XXXX@XXXX.com

一、检测说明

受鄱阳县绿色东方再生能源有限公司委托，对该厂区的地下水进行检测。

二、委托单位

单位名称：鄱阳县绿巴东方再生能源有限公司

单位地址：江西省上饶市鄱阳县游城乡

联系人：陈涛

联系电话：17996730973

三、检测内容

1. 检测点位、样品编号、检测项目及频次见表 1。

表 1 检测项目一览表

检测类别	检测点位	样品编号	检测项目	检测频次
地下水	1 号点	GS202410085001	pH 值、总硬度、溶解性总固体、耗氧量、氨氮、硝酸盐、亚硝酸盐、硫酸盐、氯化物、挥发酚、氰化物、砷、汞、六价铬、铅、镉、氟化物、钼、铁、锰、铜、锌、总大肠菌群	检测 1 次， 每天检测 1 次
	2 号点	GS202410085002		
	3 号点	GS202410085003		

2. 检测方法、使用仪器及方法检出限见表 2。

表 2 检测方法、使用仪器及检出限一览表

检测类别	检测项目	检测方法	使用仪器	方法检出限
地下水	pH 值	水质 pH 值的测定 电极法 (GB 11894-2002)	pH 计 PHB-5 型 (DGBY(9) 76.02)	—
	总硬度	水质 钙和镁总量的测定 EDTA 滴定法 (GB 11894-2002)	滴定管	0.05mmol/L

项目类别

公路工程

公路六站

检测项目
无机磷
(以
 P_2O_5 计)

有机物综合指标

(GB 3097-2023)

(4.1 碱性高锰酸钾滴减法)

铁

GB 3097-2023

III

III

BYTEST 贝源检测

检测项目	检测标准	检测结果	判定
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检测项目	检测标准	检测结果	判定
无机磷 (以 P_2O_5 计)	GB 3097-2023	0.01	合格
有机物综合指标	GB 3097-2023	0.01	合格
(4.1 碱性高锰酸钾滴减法)	GB 3097-2023	0.01	合格
铁	GB 3097-2023	0.01	合格

检测项目	检测标准	检测结果	判定
无机磷 (以 P_2O_5 计)	GB 3097-2023	0.01	合格
有机物综合指标	GB 3097-2023	0.01	合格
(4.1 碱性高锰酸钾滴减法)	GB 3097-2023	0.01	合格
铁	GB 3097-2023	0.01	合格

BYTEST 贝源检测

检测日期: 2024-06-10

检测地点: 公路六站

续表 2 检测方法、使用仪器及检出限一览表

[illegible]

检测结果如下:

[illegible][illegible]

XX	YY
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$$\mu_{\text{III}}$$
[illegible][illegible][illegible]

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

1. **THEORY** (100 marks)

1.1. **Define the following terms:**

1.1.1. **Stress**

1.1.2. **Strain**

1.1.3. **Modulus of Elasticity**

1.1.4. **Poisson's Ratio**

1.1.5. **Yield Point**

1.1.6. **Ultimate Tensile Strength**

1.1.7. **Fracture Point**

1.1.8. **Factor of Safety**

1.1.9. **Stress Concentration**

1.1.10. **Creep**

1.1.11. **Thermal Expansion**

1.1.12. **Thermal Stress**

1.1.13. **Thermal Strain**

1.1.14. **Thermal Coefficient of Expansion**

1.1.15. **Thermal Conductivity**

1.1.16. **Thermal Insulation**

1.1.17. **Thermal Shock**

1.1.18. **Thermal Fatigue**

1.1.19. **Thermal Expansion Coefficient**

1.1.20. **Thermal Contraction Coefficient**

1.1.21. **Thermal Expansion Coefficient of Area**

1.1.22. **Thermal Expansion Coefficient of Volume**

1.1.23. **Thermal Expansion Coefficient of Length**

1.1.24. **Thermal Expansion Coefficient of Mass**

1.1.25. **Thermal Expansion Coefficient of Density**

1.1.26. **Thermal Expansion Coefficient of Specific Heat**

1.1.27. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.28. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.29. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.30. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.31. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.32. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.33. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.34. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.35. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.36. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.37. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.38. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.39. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.40. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.41. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.42. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.43. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.44. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.45. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.46. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.47. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.48. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.49. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.50. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.51. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.52. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.53. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.54. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.55. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.56. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.57. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.58. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.59. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.60. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.61. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.62. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.63. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.64. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.65. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.66. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.67. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.68. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.69. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.70. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.71. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.72. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.73. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.74. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.75. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.76. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.77. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.78. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.79. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.80. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.81. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.82. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.83. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.84. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.85. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.86. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.87. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.88. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.89. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.90. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.91. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.92. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.93. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.94. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.95. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.96. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.97. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.98. **Thermal Expansion Coefficient of Thermal Resistance**

1.1.99. **Thermal Expansion Coefficient of Thermal Conductivity**

1.1.100. **Thermal Expansion Coefficient of Thermal Resistance**

1.2. **Derive the following equations:**

1.2.1. **Stress = Force / Area**

1.2.2. **Strain = Change in Length / Original Length**

1.2.3. **Modulus of Elasticity = Stress / Strain**

1.2.4. **Poisson's Ratio = Lateral Strain / Longitudinal Strain**

1.2.5. **Yield Point = Stress at which Plastic Deformation Begins**

1.2.6. **Ultimate Tensile Strength = Maximum Stress in a Tensile Test**

1.2.7. **Fracture Point = Stress at which a Material Fractures**

1.2.8. **Factor of Safety = Ultimate Tensile Strength / Working Stress**

1.2.9. **Stress Concentration = Maximum Stress / Average Stress**

1.2.10. **Creep = Time-Dependent Deformation**

1.2.11. **Thermal Expansion = Change in Length due to Temperature Change**

1.2.12. **Thermal Stress = Stress due to Temperature Change**

1.2.13. **Thermal Strain = Strain due to Temperature Change**

1.2.14. **Thermal Coefficient of Expansion = Change in Length per Unit Length per Unit Temperature Change**

1.2.15. **Thermal Conductivity = Ability of a Material to Conduct Heat**

1.2.16. **Thermal Insulation = Resistance to Heat Flow**

1.2.17. **Thermal Shock = Sudden Change in Temperature**

1.2.18. **Thermal Fatigue = Damage due to Repeated Thermal Cycling**

1.2.19. **Thermal Expansion Coefficient = Change in Length per Unit Length per Unit Temperature Change**

1.2.20. **Thermal Contraction Coefficient = Change in Length per Unit Length per Unit Temperature Change**

1.2.21. **Thermal Expansion Coefficient of Area = Change in Area per Unit Area per Unit Temperature Change**

1.2.22. **Thermal Expansion Coefficient of Volume = Change in Volume per Unit Volume per Unit Temperature Change**

1.2.23. **Thermal Expansion Coefficient of Length = Change in Length per Unit Length per Unit Temperature Change**

1.2.24. **Thermal Expansion Coefficient of Mass = Change in Mass per Unit Mass per Unit Temperature Change**

1.2.25. **Thermal Expansion Coefficient of Density = Change in Density per Unit Density per Unit Temperature Change**

1.2.26. **Thermal Expansion Coefficient of Specific Heat = Change in Specific Heat per Unit Specific Heat per Unit Temperature Change**

1.2.27. **Thermal Expansion Coefficient of Thermal Conductivity = Change in Thermal Conductivity per Unit Thermal Conductivity per Unit Temperature Change**

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