

# Gree Industry Co.,Ltd

Building A2, Sanqing Century Fortune Center, Shunhua Road,  
High-tech Zone, Jinan City, Shandong Province, China.  
Tel:+86-531-88755607 Fax:+86-531-88755607

## CERTIFICATE OF ANALYSIS

Product Name: Hydroxypropyl Guar Hydroxypropyltrimonium chloride

CAS: 71329-50-5

|                                                                       |                                    |                                 |  |
|-----------------------------------------------------------------------|------------------------------------|---------------------------------|--|
| Batch No.: G260502                                                    |                                    | Date of Manufacture: 2026.05.02 |  |
| Batch Size: 5000kg                                                    |                                    | Date of Inspection: 2026.05.02  |  |
| Test Item                                                             | Specification                      | Test Result                     |  |
| Appearance                                                            | Milky white to light yellow powder | Milky white powder              |  |
| Residue on Sieve<br>$\Phi 200 \times 50 - 0.125/0.09$ , C1, %         | $\leq 5.0$                         | 0.4                             |  |
| Residue on Sieve<br>$\Phi 200 \times 50 - 0.071/0.05$ , C2, %         | $\leq 10.0$                        | 5.1                             |  |
| Apparent Viscosity $\mu$ (25°C,<br>1.0%, Brookfield 2# at<br>20r/min) | 300-1200                           | 1000                            |  |
| Moisture Content, W, %                                                | $\leq 10.0$                        | 6.8                             |  |
| pH Value (1.0% solution)                                              | 9.0-11.0                           | 9.33                            |  |
| Transmittance (0.5% solution)                                         | $\geq 95$                          | 97.5                            |  |
| Nitrogen Content, %                                                   | 1.0-1.7                            | 1.32                            |  |
| Total Plate Count / (CFU/g)                                           | $\leq 500$                         | 100                             |  |
| Yeast & Mold / (CFU/g)                                                | $\leq 100$                         | Not detected                    |  |
| Staphylococcus aureus                                                 | Negative                           | Negative                        |  |
| Total Arsenic (As) / (mg/kg)                                          | $\leq 3.0$                         | <3.0                            |  |

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|                     |            |        |
|---------------------|------------|--------|
| Lead (Pb) / (mg/kg) | $\leq 2.0$ | 0.0026 |
| Conclusion          | Qualified  |        |

Analyst:LiuYan

Collator:Yang LiLi

