# Non-Soluble Lignin

Water-insoluble lignin powder, a renewable raw material for industrial applications

GAC-L-Non-soluble | Renewable | Industrial | Powder

## PRODUCT DESCRIPTION

Non-Soluble Lignin is a black powder that is entirely water-insoluble, with a pH of 4 – 6. Lignin is a complex organic polymer of propyl phenol units — coniferyl alcohol and sinapyl alcohol, with a minor quantity of p-coumaryl alcohol — cross-linked through carbon-carbon, ester and ether linkages. It is central to the rigidity of plant cell walls, particularly in wood and bark, and as a renewable raw material has the potential to extend to products currently sourced from petrochemical substances, including pulp and paper, bioenergy, phenolic chemicals, resins, adhesives, carbon fiber, and agricultural/animal-feed applications.

## TYPICAL PHYSICAL & CHEMICAL PROPERTIES

| PARAMETER | TYPICAL VALUE |
|---|---|
| Appearance | **Black powder** |
| pH | **4 – 6** |
| Water-insoluble Matter | **Non-soluble (100%)** |
| Lignin Content | **50% min** |
| Reducing Sugar | **0%** |
| Moisture | **5% max** |

Values represent typical production results and are provided for reference only; they do not constitute a binding product specification. Please refer to the Certificate of Analysis (COA) accompanying each shipment for batch-specific results.

## APPLICATIONS

- Raw material for the pulp and paper industry (byproduct fuel, chemicals and materials)
- Feedstock for biofuels and bioenergy production (pyrolysis, gasification, fermentation)
- Source of phenolic compounds, resins, adhesives and carbon fiber
- Renewable feedstock for bio-based plastics and composites
- Agricultural and animal feed applications as a lignin-rich input
- Used as raw material for different industries

## PACKAGING, HANDLING & STORAGE

| | |
|---|---|
| Packaging | **20 kg or 25 kg woven bags with polyethylene liner inside** |
| Custom Packaging | **Available according to customer requirement** |
| Storage | **Store in a cool, dry, well-ventilated area** |
| Shelf Life | **24 months from production date in original unopened packaging** |
| Handling | **Avoid prolonged exposure to moisture; reseal opened bags** |


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