

# Technical Data Sheet

## Calcium Lignosulfonate

### Production Description

Calcium lignosulfonate(calcium lignosulphonate) is an amorphous yellow powder extracted from sulfite pulping of wood.The framework turned out to be three aromatic alcohols:coniferyl ,alcohol,p-counmaryl alcohol and sinapyl alcohol.Complete water soluble and practically insoluble in organic solvent.

### Main Specification

Name	<b>Calcium Lignosulfonate Grade Three</b>
Product Code	GAC-CaLS-3
Appearance	Yellow Brown powder
PH value	5-7
Dry matters	95%min
Water-insoluble	2.5%max
Sulphate	2%min
Total Calcium& magnesium (Sulfate)	5%-6%
Lignosulphonate	50%min
Sugar	10-12%
Reducing Sugar	7%around
Ash	18%-21%
Bulk Density(kg/m3)	205
Moisture	7%

## Uses

1. Could work as plasticizer in making concrete n making concrete to maintain the ability of concrete flow with less water. Also used during the production of cement, where they act as grinding aids in the cement mill and as a rawmix slurry deflocculant (that reduces the viscosity of the slurry).
2. Could be used in lead batteries to acts on crystallization of the lead sulfate thus increase the battery to get a much longer life-time.
3. Could used as a filler and binder in ceramic tiles, resins to fiber boards, casting sand and in fodder pellets.
4. Work as dust-suppression roads as well as in dusty processes within industry. Lignosulfonate is used as a dispersant in products like fodder, disperse pesticides, dyes, carbon black, and other insoluble solids and liquids into water.
5. Could reduce the viscosity of mineral slurries is used to advantage in oil drilling mud, where it replaced tannic acids from quebracho (a tropical tree).
6. Could be used for the production of plasterboard to reduce the amount of water required to make the stucco flow and form the layer between two sheets of paper. The reduction in water content allows lower kiln temperatures to dry the plasterboard, saving energy.
7. Lignosulphonates could work as a binder of powder and granular materials: for iron ore powder, lead and zinc powder, pulverized coal, coke Toner pressure on the ball; extrusion of cast iron, cast steel sand repression; mud-brick wall and floor tiles molding; mineral aggregate into a ball and provides high strength, good stability, lubrication and mold good results.

## Package

1. 25kgs woven bags with liner inside, 2 According Customers' requirement