



VANILLEX®

Lignin is one of the principal components of wood and has unique properties.

VANILLEX® are being commonly used in battery manufacturing industries.

LIGNIN SULPHONATES

BENEFITS

VANILLEX® products are well known for improving battery performance by:

- Extending cycle life
- Imparting superior cold-cranking capabilities
- Increasing reserve capacity

TYPICAL ANALYTICAL VALUES

Powder Products	
Grade	Vanillex N
Color Tone	Dark Brown
pH (5% Aqueous Solution)	8.2
Moisture	4.6%
Calcium	0.01%
Lignosulfonate (Reference Value)	91%

Batteries are engineered with optimised ratios of positive active material, negative active material and electrolyte. To meet standards of reserve capacity, cold crank ability, and especially battery life, engineers need to get maximum efficiency out of the negative active material. Otherwise, the under-utilised mass is simply unproductive weight and expense. It is well established that the investment in VANILLEX® as an organic expander returns its cost in performance many times over.