



**BORREGAARD**  
**LIGNOTECH**

MEMBER OF THE OKLA GROUP

**LIGNOSULFONATOS CALCIO Y SODIO**  
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## Kelig 32 Powder

Kelig 32 is a highly modified lignosulfonate used primarily as a complexing agent in oil well cement retarders (high temperature stability), cooling tower treatments and industrial cleaning formulations.

### Sales Specifications

	<u>Minimum</u>	<u>Maximum</u>	<u>Test Method</u>
pH (3% Solution)	8.0	9.0	QC-002
% Moisture	3.5	8.0	QC-015
% Insolubles	--	0.3	QC-011

Only active customers are notified of specification changes.

### Typical Analysis\*

#### Chemical Data

8.4	pH
8.1%	Sodium
0.4%	Calcium
3.8%	Sulfonate Sulfur
4.7%	Total Sulfur
0.7%	HPLC Sugars

#### Physical Data

Color:	Brown
Properties:	5.0% Moisture
	40 lbs./ft <sup>3</sup> Bulk Density

*\*The above analyses are not formal specifications and values may change.*

**Storage Stability:** Under dry conditions, powder products remain stable for several years.

**Compatibility:** Lignosulfonates are compatible with anionic and non-ionic materials, dispersants, wetting agents and most organic and inorganic materials.

**Packaging:** Powder is packaged in 50 lb. net weight multi-wall kraft bags or non-returnable bulk bags.

**Lead Time:** Two weeks lead time is typical.

**Material Safety Data Sheets** are available upon request.

Please contact your LignoTech Sales Representative for additional product information.

Spec No: A-421      Effective Date: 07/18/85      Revision Date: 02/27/89      Revision: 0      Approved By: CRD

The information given here is based on our best knowledge and we believe it to be true and accurate. However, Borregaard LignoTech does not warrant or guarantee in any manner whatsoever, including the warranty of merchantability or fitness for the end user the accuracy of the information and procedures listed herein and will not be responsible for any damage resulting from their use.

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