



BORREGAARD
LIGNOTECH

MEMBER OF THE OKLA GROUP

LIGNOSULFONATOS CALCIO Y SODIO

FORESTAL QUIMICA ECATEPEC S.A. de C.V.

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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 ³ 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

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