

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



■ CONTROLLED DOCUMENT

Document No.: TS-BC-001 **Revision:** 1.0 **Effective Date:** July 24, 2026

TEXAS SODIUM BENTONITE INC.

Feed-Grade Mineral Solutions | Alpine, TX & Comanche, TX

CONTROLLED DOCUMENT

TS-BC-001 | Rev 1.0

BEEF CATTLE TECHNICAL DATA SHEET

Feed-Grade Sodium Bentonite & Clinoptilolite Zeolite

Species-Specific Guidance | Stocker / Feedlot / Cow-Calf Operations

SODIUM BENTONITE & CLINOPTILOLITE ZEOLITE

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



DOCUMENT APPROVAL & CONTROL RECORD

Field	Detail
Document Number	TS-BC-001
Document Title	Beef Cattle Technical Data Sheet — Feed-Grade Sodium Bentonite & Clinoptilolite Zeolite
Revision	1.0 (Initial Release)
Effective Date	July 24, 2026
Prepared By	Texas Sodium Bentonite Inc. Product & Technical Development
Reviewed By	Texas Sodium Bentonite Inc. Quality Assurance
Approved By	Texas Sodium Bentonite Inc. Operations & Regulatory Affairs
Document Classification	CONFIDENTIAL — For Authorized Use Only. Uncontrolled if printed.
Applicable Facilities	Alpine, TX (Mining & Processing) Comanche, TX (Packaging & Distribution)
Supersedes	N/A — Initial Release

⚠ DOCUMENT CONTROL NOTICE

This document is a controlled technical record of Texas Sodium Bentonite Inc. Any printed or digitally exported copy is considered UNCONTROLLED. Always verify the current revision via the Texas Sodium Bentonite Inc. Quality Management System before applying specifications. Unauthorized reproduction, distribution, or alteration is prohibited.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



1 PURPOSE

This Technical Data Sheet (TDS) provides species-specific, production-phase guidance on the formulation, inclusion, and performance benefits of **Texas Sodium Bentonite Inc. feed-grade sodium bentonite** (montmorillonite clay) and **clinoptilolite zeolite** in beef cattle production systems. The document is intended to serve as a controlled, audit-ready reference for nutritionists, feedlot managers, supplement formulators, and commercial beef producers utilizing Texas Sodium Bentonite Inc. mineral products.

This sheet covers three primary production phases: **stocker/backgrounder operations**, **feedlot finishing**, and **cow-calf/breeding operations**, including creep feeding programs for pre-weaned calves. Guidance herein reflects current product specifications from Texas Sodium Bentonite Inc. facilities and is intended to support accurate product labeling, feed formulation records, and regulatory compliance documentation.

2 SCOPE

This document applies to all commercial and professional users of Texas Sodium Bentonite Inc. feed-grade mineral products within beef cattle production contexts, including but not limited to:

- **Commercial beef producers** managing stocker/backgrounder, feedlot finishing, or cow-calf operations

2101 N Highway 118

Alpine, Texas 79830

(432) 837-4444

info@texassodiumbentonite.com

www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Ruminant nutritionists and consulting nutritionists** formulating total mixed rations (TMR), supplement blocks, tubs, and loose mineral programs
- **Feedlot managers and pen riders** implementing ration buffering and mycotoxin management strategies
- **Feed manufacturers, mill operators, and premix formulators** incorporating Texas Sodium Bentonite Inc. products as functional mineral ingredients
- **Quality assurance and regulatory personnel** maintaining lot traceability and feed safety compliance records

This document is not intended for use outside of the specified product applications. Consult Texas Sodium Bentonite Inc. technical support for species other than beef cattle or for applications outside the scope described herein.

3 PRODUCT OVERVIEW

3.1 Origin & Processing

Texas Sodium Bentonite Inc. feed-grade mineral products are sourced from naturally occurring geological deposits in the **Big Bend region of West Texas**, an area recognized for its volcanic mineral heritage and premium-quality bentonite and zeolite reserves. Raw material is extracted under controlled mining protocols and transported to the **Texas Sodium Bentonite Inc. Alpine, TX facility** for primary processing, classification, and quality certification. Finished material is then transferred to the **Texas Sodium Bentonite Inc. Comanche, TX facility** for packaging and customer-ready distribution.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



3.2 Product Descriptions

Product	Mineral Classification	Physical Form	Particle Size	Moisture Content
Feed-Grade Sodium Bentonite	Smectite clay; Montmorillonite (Na-form)	Fine powder / granule (milled)	-20 mesh (application-dependent)	≤ 12% as shipped
Feed-Grade Clinoptilolite Zeolite	Natural aluminosilicate; Heulandite group	Fine powder / granule (milled)	-20 mesh (application-dependent)	≤ 10% as shipped

Note: Particle size specifications may be customized by order for specific pelleting, TMR mixing, or block-pressing applications. Contact Texas Sodium Bentonite Inc. with technical support for custom mesh options.

3.3 Geological & Mineralogical Notes

Sodium bentonite from the Big Bend volcanic deposits exhibits high swelling index, superior cation exchange capacity (CEC), and natural purity with minimal contaminant clay fractions. These properties deliver consistent rumen buffering and flow agent/pellet binding performance across production systems.

Clinoptilolite zeolite from the same region is characterized by its unique three-dimensional crystalline silicon-aluminum framework, conferring a high surface area and selective ion exchange affinity for ammonium (NH_4^+), potassium (K^+), and heavy metal cations — the properties most relevant to livestock performance and environmental compliance applications.

4 MODE OF ACTION

4.1 Feed-Grade Sodium Bentonite — Mechanisms in Beef Cattle

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Anti-Caking & TMR Flow Aid:** At low inclusion rates, sodium bentonite improves the flowability of finely ground, moisture-sensitive feed ingredients. In total mixed rations, it reduces ingredient bridging and segregation, promoting uniform feed delivery across the bunk. This is especially valuable in high-humidity environments and wet co-product rations.
- **Pellet Binder & Supplement Block Binder:** The swelling and cohesive properties of sodium bentonite make it an effective structural binder in pressed mineral supplement blocks, tubs, and pelleted feed products, improving block hardness, durability, and weather resistance without contributing excess energy or nitrogen.

4.2 Feed-Grade Clinoptilolite Zeolite — Mechanisms in Beef Cattle

- **Rumen Buffering:** Clinoptilolite zeolite functions as a natural pH buffer within the rumen, attenuating rapid pH depression associated with high-grain finishing diets and fermentable carbohydrate loading. The layered crystalline structure absorbs excess hydrogen ions and stabilizes rumen pH, reducing the incidence of subacute ruminal acidosis (SARA) and its associated performance losses.
- **Ammonia Capture & BUN Reduction:** Clinoptilolite zeolite selectively adsorbs ammonium ions (NH_4^+) within the rumen and hindgut, reducing ruminal ammonia concentration, lowering blood urea nitrogen (BUN), and improving nitrogen utilization efficiency. This is particularly valuable in high-protein backgrounding and transition diets.
- **Selective Heavy Metal Adsorption:** The zeolite framework preferentially binds cationic heavy metals — including lead (Pb^{2+}), cadmium (Cd^{2+}), and cesium (Cs^+) — in the gastrointestinal tract, providing a protective mechanism against environmental and feed-borne heavy metal exposure.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Rumen pH Stabilization:** Clinoptilolite zeolite contributes to rumen pH stabilization through cation exchange buffering, complementing the action of sodium bentonite and sodium bicarbonate in acidosis prevention programs during high-concentrate finishing.
- **Cation Exchange Benefiting Ca/Mg Balance:** The mineral cation exchange properties of clinoptilolite zeolite modulate the intestinal availability of calcium (Ca^{2+}) and magnesium (Mg^{2+}), supporting skeletal integrity in growing cattle and reducing the risk of hypomagnesemia in early-lactation beef cows on lush spring pasture.
- **Reduction of Nitrate Toxicity Risk:** Clinoptilolite zeolite has demonstrated capacity to slow the rumen conversion of nitrate to toxic nitrite intermediates, providing a time-buffering mechanism that reduces the risk of acute nitrate toxicity in cattle grazing or consuming high-nitrate forages.

5 INCLUSION RATES

Recommended inclusion rates are expressed as a percentage of complete diet or supplement dry matter (DM). Rates should be verified against specific ration formulations, ingredient moisture levels, and production phase objectives. Consult Texas Sodium Bentonite Inc. technical support for customized rate recommendations.

Production Phase	Approximate Weight Range	Sodium Bentonite (% of Diet DM)	Clinoptilolite Zeolite (% of Diet DM)	Primary Application
Stocker / Backgrounder	400 – 700 lbs. (181 – 318 kg)	0.5 – 1.0%	0.5 – 1.5%	Rumen buffering; ammonia capture; transition diet support;

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



Production Phase	Approximate Weight Range	Sodium Bentonite (% of Diet DM)	Clinoptilolite Zeolite (% of Diet DM)	Primary Application
Feedlot Finishing	700 – 1,400 lb (318 – 635 kg)	0.5 – 1.5%	0.5 – 1.5%	SARA prevention; TMR flowability; pen air quality
Cow-Calf / Breeding Cows	Mature cows (all weights)	0.5 – 1.0%	0.5 – 1.0%	Mineral supplement binder; reproductive efficiency support
Creep Feed — Pre-Weaned Calves	Pre-weaning (< 400 lbs.)	0.25 – 0.5%	0.25 – 0.75%	Early rumen development support; palatability; pellet binder in pressed creep

FORMULATION NOTE

All inclusion rates are expressed as percent of complete diet or supplement dry matter (DM). When incorporating into loose mineral, supplement tubs, or pressed blocks, apply rates relative to the finished product's dry basis weight. Do not exceed 2.0% total combined inclusion (bentonite + zeolite) without consulting a ruminant nutritionist. Rates at the lower end of the range are appropriate for mature, adapted cattle on stable diets. Higher rates should be introduced gradually over a 7–10-day adaptation period.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



6 PERFORMANCE BENEFITS

The following benefits are documented in peer-reviewed and industry literature and reflect field observations consistent with the use of Texas Sodium Bentonite Inc. feed-grade mineral products at recommended inclusion rates in beef cattle production systems:

- **Rumen pH Buffering & Acidosis Risk Reduction:** Sustained rumen pH stabilization in high-grain, high-fermentable carbohydrate feedlot finishing diets, reducing the incidence of SARA and clinical acidosis, associated off-feed events, and liver abscess prevalence.
- **Animal Health Protection:** Helps to protect immune function, liver integrity, reproductive efficiency, and overall feedlot performance in contaminated grain and silage environments.
- **Improved Average Daily Gain (ADG) & Feed Efficiency:** Rumen pH stabilization and reduced contaminated grain and silage environments support consistent daily dry matter intake (DMI), reduced performance variation across pens, and improved feed conversion ratio (FCR) in finishing operations.
- **Reduced Bloodstream Ammonia & Improved Nitrogen Utilization:** Clinoptilolite zeolite adsorption of rumen ammonia lowers circulating blood urea nitrogen (BUN), reduces energy cost of hepatic urea cycling, and increases the proportion of dietary nitrogen channeled toward lean tissue accretion and muscle development.
- **Anti-Caking & TMR Flowability Improvement:** Sodium bentonite at low inclusion rates significantly improves the flowability of finely ground ingredients, wet byproduct feeds, and high-moisture silage-based TMR — reducing ingredient segregation and improving ration uniformity across mixer wagon deliveries.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Superior Mineral Supplement Binder for Range Blocks & Tubs:** The cohesive plasticity of sodium bentonite delivers consistent hardness, UV-resistance, and dimensional stability in pressed mineral blocks and weather-exposed range supplement tubs, reducing product waste and maintaining steady voluntary intake by grazing cattle.
- **Reduced Pen & Feedlot Ammonia Emissions:** Clinoptilolite zeolite incorporated in feedlot rations or applied to pen surfaces captures volatilized ammonia, reducing aerial ammonia concentrations in confinement settings — improving animal respiratory health, worker comfort, and supporting air quality regulatory compliance.
- **Supports Reproductive Efficiency in Cow-Calf Operations:** By stabilizing trace mineral balance and supporting rumen health during the periconception and early gestation periods, Texas Sodium Bentonite Inc. mineral products contribute to improved conception rates, reduced embryonic loss, and stronger calf birth outcomes.

7 NUTRITIONAL INTERACTIONS

Feed-grade sodium bentonite and clinoptilolite zeolite are **inert mineral carriers** and do not contribute caloric energy, crude protein, or digestible fiber to the ration. At recommended inclusion rates, **no adjustment to protein, energy, or standard macro-mineral specifications** are required in existing ration formulations.

In high-concentrate feedlot finishing diets ($\geq 70\%$ concentrate DM), clinoptilolite zeolite functions as a **natural rumen buffer comparable to sodium bicarbonate (NaHCO_3)**. When substituting clinoptilolite zeolite for or combining it with sodium bicarbonate, total dietary sodium contribution should be monitored.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



Total dietary ash content should be monitored when combining sodium bentonite and/or clinoptilolite zeolite with other inorganic buffering agents (e.g., sodium sesquicarbonate, magnesium oxide) or high-ash byproducts (e.g., distiller's grains, bakery waste). Total mineral ash exceeding 8–10% of diet DM may reduce dry matter intake in some cattle classes and should be evaluated in ration balancing software.

Clinoptilolite zeolite's cation exchange activity may transiently bind dietary potassium (K^+) and magnesium (Mg^{2+}) in the rumen. At recommended inclusion rates this effect is minor; however, nutritionists formulating diets for cattle with elevated mineral requirements (early lactation beef cows, grass tetany-prone environments) should account for this interaction when specifying supplemental mineral levels.

8 SAFETY CONSIDERATIONS

8.1 Animal Safety

- **GRAS (Generally Recognized as Safe)** status established for feed use of sodium bentonite and clinoptilolite zeolite at recommended inclusion rates in ruminant production.
- **No known withdrawal period** applicable to meat or offal from cattle consuming these products at labeled rates.
- **Non-toxic** at all recommended inclusion rates described in Section 5 of this document.
- Chronic high-dose inclusion (>3% DM, sustained) has been associated with reduced dry matter intake in some studies; maintain inclusion within specified ranges.

8.2 Handler & Worker Safety

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Inhalation Precautions:** Fine mineral powder may become airborne during bulk handling, pneumatic transfer, and mixer loading operations. Appropriate respiratory PPE (minimum N95 particulate respirator) is required during dust-generating activities. Refer to product Safety Data Sheet (SDS) for complete exposure limits.
- **Skin & Eye:** Minimize prolonged skin contact with fine powder during handling. Use safety glasses or goggles in bulk transfer environments.
- **Engineering Controls:** Use closed-system pneumatic handling or enclosed mixer loading systems where operationally feasible to minimize dust exposure.

8.3 Storage & Handling

- Store in a **cool, dry, well-ventilated location** away from moisture and standing water. Excessive moisture exposure reduces product flowability and may cause bag degradation.
- Keep bags off floor on pallets; maintain first-in, first-out (FIFO) inventory rotation.
- Avoid prolonged exposure to direct sunlight and extreme temperature cycling.
- Shelf life: **24 months** from date of manufacture when stored under recommended conditions and packaging integrity is maintained.

⚠ NOT FOR HUMAN CONSUMPTION

These products are manufactured exclusively as feed-grade mineral ingredients for livestock and are NOT intended for human consumption. Keep out of reach of

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



children. In case of accidental ingestion by humans, contact Poison Control immediately and refer to the applicable SDS.

9 REGULATORY & COMPLIANCE NOTES

- **AAFCO Recognized Ingredient Status:**
 - Sodium Bentonite — AAFCO Official Publication, Item No. 85.1: "Sodium Bentonite is a hydrated aluminum silicate..."
 - Clinoptilolite Zeolite — Recognized by AAFCO as a feed ingredient; reference AAFCO definitions for natural aluminosilicate mineral ingredients.
- **21 CFR Part 573 Compliance:** Products are produced in compliance with 21 CFR Part 573 (Food Additives Permitted in Feed and Drinking Water of Animals), as applicable to mineral feed ingredients used at the inclusion rates specified herein.
- **Texas Sodium Bentonite Inc. Quality Management System (QMS):** All production batches are manufactured, tested, and released under the Texas Sodium Bentonite Inc. Quality Management System. Written SOPs govern raw material receipt, processing, quality testing, lot release, and packaging at both the Alpine (processing) and Comanche (packaging) facilities.

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



- **Certificate of Analysis (COA):** A current, lot-specific Certificate of Analysis is available upon request for every product lot. COA documents include moisture, particle size, heavy metals panel, swelling index (bentonite), and CEC (zeolite). Request COA at time of order or by contacting Texas Sodium Bentonite Inc. directly.
- **Lot Traceability:** Full lot traceability is maintained from raw material mining at the Alpine facility through processing, quality release, and final packaging at the Comanche facility. Lot traceability records are retained for a minimum of 3 years in the Texas Sodium Bentonite Inc. QMS.
- **USDA Organic Program Compatibility:** Texas Sodium Bentonite Inc. feed-grade sodium bentonite and clinoptilolite zeolite are naturally derived mineral ingredients. These products may be compatible with USDA National Organic Program (NOP) certified production systems when used at label-specified inclusion rates. **Producers and certifying agents must independently verify NOP compliance status** for specific operations and certification bodies, as allowances may vary.
- **Non-GMO Status:** Products are mined mineral materials and are inherently non-GMO and non-biological. No genetically modified organisms are used in production.

10 QUALITY SPECIFICATIONS

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



The following specifications apply to Texas Sodium Bentonite Inc. feed-grade products as released from the Comanche, TX packaging facility. Lot-specific COA values will reflect actual measured results within or exceeding these specification limits.

10.1 Feed-Grade Sodium Bentonite — Quality Specifications

Parameter	Specification	Test Method / Reference
Moisture Content (%)	≤ 12.0%	AOAC 930.15 (Moisture, Loss on Drying at 105°C)
Particle Size (mesh)	-20 mesh (as ordered); ≥90% passing 20 mesh	ASTM E11 Sieve Analysis
Swelling Index (mL / 2g)	≥ 14 mL/g	ASTM D5890 (Free Swell Index)
pH (10% aqueous slurry)	8.5 – 10.5	ASTM E70 / In-house pH electrode method
Arsenic (As)	30 (ppm in complete feed) 42 (ppm in mineral premixes and supplements)	AAFCO MTL / NRC MTL
Lead (Pb)	10 (ppm in complete feed) 42 (ppm in mineral premixes and supplements)	AAFCO MTL / NRC MTL
Mercury (Hg)	2 (ppm in complete feed) 42 (ppm in mineral premixes and supplements)	AAFCO MTL / NRC MTL
Cation Exchange Capacity (meq/100g)	≥ 70 meq/100g	ASTM C837 / Ammonium acetate saturation method

10.2 Feed-Grade Clinoptilolite Zeolite — Quality Specifications

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



Parameter	Specification	Test Method / Reference
Moisture Content (%)	≤ 10.0%	AOAC 930.15 (Moisture, Loss on Drying at 105°C)
Particle Size (mesh)	-20 mesh (as ordered); ≥90% passing 20 mesh	ASTM E11 Sieve Analysis
Clinoptilolite Purity (%)	≥ 50% clinoptilolite by X-ray diffraction	XRD Quantitative Phase Analysis (Rietveld method)
pH (10% aqueous slurry)	6.5 – 8.5	ASTM E70 / In-house pH electrode method
Arsenic (As)	30 (ppm in complete feed) 42 (ppm in mineral premixes and supplements)	AAFCO MTL / NRC MTL
Lead (Pb)	10 (ppm in complete feed) 42 (ppm in mineral premixes and supplements)	AAFCO MTL / NRC MTL
Mercury (Hg)	≤ 0.1 mg/kg (ppm)	AAFCO MTL / NRC MTL
Ammonium Adsorption Capacity	≥ 15 mg NH ₄ ⁺ -N / g zeolite	In vitro batch equilibrium adsorption assay
Cation Exchange Capacity (meq/100g)	≥ 120 meq/100g	Ammonium acetate saturation method (ASTM C837 modified)

CERTIFICATE OF ANALYSIS

Actual measured values for each specification are reported on the lot-specific Certificate of Analysis (COA). COAs are available upon request by contacting Texas Sodium Bentonite Inc. technical support. COA records are traceable to

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



specific production lot numbers assigned at the Alpine (processing) facility and confirmed at the Comanche (packaging) facility.

11 ORDERING & CONTACT INFORMATION

Texas Sodium Bentonite Inc. Contact & Ordering Reference	
Company	Texas Sodium Bentonite Inc.
Corporate Office	Alpine, TX, United States
Processing Facility	Alpine, TX — Mining, Processing & Quality Certification
Packaging Facility	Comanche, TX — Finished Product Packaging & Distribution
Standard Packaging	50 lb. sewn-top kraft paper bags or poly/polywoven bags (Comanche facility); bulk availability upon request
Minimum Order Quantity	Contact Texas Sodium Bentonite Inc. for current MOQ and freight terms
Technical Support	Contact Texas Sodium Bentonite Inc. for species-specific formulation guidance, custom particle size requests, and inclusion rate consultation

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



Texas Sodium Bentonite Inc. Contact & Ordering Reference

COA Requests	Certificate of Analysis available for every lot upon request — provide lot number at time of inquiry
SDS Requests	Safety Data Sheets available on request for all products

TECHNICAL INQUIRIES

For product formulation support, custom specifications, COA or SDS requests, or regulatory documentation, contact:

Ronnie Coufal, VP Global Business Development – (817) 980-9072

For product pricing and logistics support, contact:

Billy Cox, VP Sales – (806) 255-0122 or

James McKibben, Sales Representative – (817) 521-2889

12 REVISION HISTORY

Rev	Effective Date	Description of Change	Author / Department
1.0	July 24, 2026	Initial controlled release of Beef Cattle Technical Data Sheet for feed-grade sodium bentonite and clinoptilolite zeolite. Covers all four production phases: stocker/backgrounder,	Texas Sodium Bentonite Inc. QA / Technical Development

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com

Texas Sodium Bentonite

Alpine, TX | Alpine Processing Facility | Comanche Packaging Facility



Rev	Effective Date	Description of Change	Author / Department
		feedlot finishing, cow-calf/breeding, and creep feeding. Established quality specifications tables for both products.	

Future revisions to this document will be recorded in the table above. The current controlled version is maintained in the Texas Sodium Bentonite Inc. Quality Management System. This revision history supersedes all prior drafts. Contact Texas Sodium Bentonite Inc. QA for prior version archival records.

DISCLAIMER

The information contained in this Technical Data Sheet is provided in good faith and is based on data believed to be accurate as of the effective date noted herein. Texas Sodium Bentonite Inc. makes no warranty, express or implied, regarding fitness for a particular purpose beyond the applications explicitly described. Performance outcomes in specific livestock operations may vary based on animal genetics, diet composition, environmental conditions, management practice, and other factors beyond Texas Sodium Bentonite Inc.'s control. This document does not constitute veterinary or nutritional advice. Consult a licensed ruminant nutritionist or veterinarian for ration formulation decisions. Texas Sodium Bentonite Inc. reserves the right to update product specifications without prior notice. Always consult the current controlled version of this document.

Texas Sodium Bentonite Inc. | Alpine,
TX

CONFIDENTIAL — FOR AUTHORIZED USE ONLY
| Uncontrolled if Printed

Doc No: TS-BC-001 | Rev: 1.0 | Effective:
July 24, 2026

2101 N Highway 118
Alpine, Texas 79830
(432) 837-4444
info@texassodiumbentonite.com
www.texassodiumbentonite.com