



PO Box 600 San Felipe, Texas 77473
(979) 885-0005 Fax: (979) 885-3208

BOARD OF DIRECTORS MEETING

Prior Notice was waived and a meeting of the Directors was held on August 15, 2014. The following resolution was adopted in respects to the official signing of bids on behalf of Pencco, Inc.

BE IT RESOLVED by the Board of Directors of Pencco, Inc. in a meeting duly assembled that Monica Avila, former Bid Secretary of the Corporation, no longer has authority to negotiate for and sign any bid proposals and/or contracts on behalf of the Corporation.

BE IT FURTHER RESOLVED that Sarah Duffy, Bid Secretary, of the Corporation has authority to negotiate for and sign any bid proposals and/or contracts which the Corporation might enter into for the furnishing of services for the Corporation under such terms, conditions, and stipulations, and for such consideration as she may deem to be in the best interest of the Corporation.

No further business was necessary and the meeting was concluded.

Ron L. Horne, President



PO Box 600 San Felipe, Texas 77473
(979) 885-0005 Fax: (979) 885-3208

AFFIDAVIT OF COMPLIANCE

This is to certify that the Hydrofluorosilicic Acid supplied by our company meets AWWA Standard B703-19 or the latest revision and is certified to NSF/ANSI Standard NSF-60.

A handwritten signature in black ink that reads "R. L. Horne". The signature is written in a cursive style and is positioned above a horizontal line.

Signature

R. L. Horne, President

Name and Title of Official

4/25/2023

Date



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of **Tuesday, February 20, 2024** at 12:15 a.m. Eastern Time. Please contact NSF to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=penco&>

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

PENCCO, Inc.

831 Bartlett Road

Sealy, TX 77474

United States

800-864-1742

979-885-0005

Visit this company's website (<http://www.penco.com>)

Facility : Distribution Center - Birmingham, AL

Ferric Sulfate

Trade Designation

50% Ferric Sulfate

60% Ferric Sulfate

Ferric Sulfate

Ferric Sulfate Solution

Poly Ferric Sulfate

Product Function

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Coagulation & Flocculation

Max Use

650mg/L

650mg/L

650mg/L

650mg/L

650mg/L

Facility : Distribution Center - Stockton, CA

Ferric Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Chloride	Coagulation & Flocculation	600mg/L

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
HFS	Fluoridation	5mg/L
HFSA	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility : Vernon, CA

Ferric Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Chloride	Coagulation & Flocculation	600mg/L

Ferrous Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferrous Chloride	Coagulation & Flocculation	500mg/L

Facility : Distribution Center - Willow Springs, IL

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility : Distribution Center - Whippany, NJ

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility : Distribution Center - Morganton, NC

Fluorosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
HFS	Fluoridation	5mg/L
HFSA	Fluoridation	5mg/L
Hydrofluorosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Facility : Middlesex, NC

Ammonium Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ammonium Sulfate	Chloramination	60mg/L
LAS	Chloramination	60mg/L
Liquid Ammonium Sulfate	Chloramination	60mg/L

Ferric Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Penn 3202	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrofluorosilicic Acid	Fluoridation	5mg/L

Facility : Distribution Center - Bardwell, TX

Ferric Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Chloride	Coagulation & Flocculation	600mg/L
Pencoco 3012	Coagulation & Flocculation	600mg/L

Ferric Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L

Ferrous Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferrous Chloride	Corrosion Control	500mg/L
	Coagulation & Flocculation	
Pencco 0210	Corrosion Control	500mg/L
	Coagulation & Flocculation	

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrofluorosilicic Acid	Fluoridation	5mg/L

Facility : Ennis, TX

Ferric Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferric Chloride	Coagulation & Flocculation	600mg/L
Pencco 3012	Coagulation & Flocculation	600mg/L

Ferric Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L

Ferrous Chloride

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferrous Chloride	Corrosion Control	500mg/L
	Coagulation & Flocculation	
Pencco 0210	Corrosion Control	500mg/L
	Coagulation & Flocculation	

Ferrous Sulfate[1]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Ferrous Sulfate	Coagulation & Flocculation	150mg/L
GreenIron	Coagulation & Flocculation	150mg/L
SafeIron	Coagulation & Flocculation	150mg/L

[1] Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Hydrofluorosilicic Acid	Fluoridation	5mg/L

Facility : Sealy, TX

Ferric Sulfate

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
50% Ferric Sulfate	Coagulation & Flocculation	650mg/L
60% Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate	Coagulation & Flocculation	650mg/L
Ferric Sulfate Solution	Coagulation & Flocculation	650mg/L
Penn 3202	Coagulation & Flocculation	650mg/L
Poly Ferric Sulfate	Coagulation & Flocculation	650mg/L

Hydrofluosilicic Acid

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Fluorosilicic Acid	Fluoridation	5mg/L
Fluosilicic Acid	Fluoridation	5mg/L
Hydrofluosilicic Acid	Fluoridation	5mg/L

Number of matching Manufacturers is 1

Number of matching Products is 61

Processing time was 0 seconds

Safety Data Sheet (SDS) Hydrofluorosilicic Acid

SECTION 1 – Chemical Identification and Supplier’s Information

Product Identification: Hydrofluorosilicic Acid

Chemical Formula: H₂SiF₆

Chemical Family: N/A

CAS #: 16961-83-4

Use: Industrial Use

Supplier’s Name & Address:

Pencco, Inc.
P.O. Box 600
San Felipe, TX 77473

Emergency Phone:

Pencco (979) 885-0005
CHEMTREC (800) 424-9300 – 24 hours a day

SECTION 2 – Hazards Identification

Classification of the Substance/Mixture

Corrosive to Metals	Category 1
Acute Toxicity (Oral)	Category 4
Acute Toxicity (Dermal)	Category 3
Skin Corrosion/Irritation	Category 1B
Eye Damage/Irritation	Category 1
Acute Toxicity (Inhalation)	Category 4

Signal Word: Danger



Pictograms:



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Hazard Statements:

- May be corrosive to metals (H290)
- Harmful if swallowed (H302)
- Toxic in contact with skin (H311)
- Causes severe skin burns and eye damage (H314)
- Harmful if inhaled (H332)

Precautionary Statements - Prevention:

- Keep only in original container. (P234)
- Do not breathe fumes, gases, mists, vapors, or sprays. (P260)
- Wash face, hands, and any exposed skin thoroughly after handling. (P264)
- Do not eat, drink, or smoke when using this product. (P270)
- Use only outdoors or in a well-ventilated area. (P271)
- Wear protective gloves, clothing, and eye/face protection. (P280)

Precautionary Statements – Response:

- If swallowed: Rinse mouth. DO NOT induce vomiting. (P301+P330+P331)
- Call a poison center or doctor if you feel unwell. (P312)
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
- Call a poison center or doctor if you feel unwell. (P312)
- Wash contaminated clothing before reuse. (P363)
- If inhaled: Remove person to fresh air and keep comfortable for breathing. (P304+P340)
- Immediately call a poison center or doctor. (P310)
- Specific treatment can be found in Section 4 – First Aid Measures of SDS. (P321)
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing. (P305+P351+P338)
- Absorb spillage to prevent material damage. (P390)

Precautionary Statements – Storage:

- Store locked up. (P405)
- Store in corrosive resistant container with a resistant inner liner. (P406).

Precautionary Statements – Disposal:

- Dispose of contents and container in accordance with local, regional, national, and international regulations. (P501).

SECTION 3 – Composition/Information on Ingredients

Chemical Identity: Hydrofluorosilicic Acid

Common Name and synonyms: HFSA, Fluorosilicic acid, Hexafluorosilicic acid, hydrosilicofluoric acid

Ingredient	CAS #	Weight Percentage
Hydrofluorosilicic Acid	16961-83-4	25%
Water/Inactive Ingredients	7732-18-5	75%



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*All components are NSF compliant

SECTION 4 – First Aid Measures

Description of First Aid Measures

Eye Contact: Immediately flush eyes for 15 minutes with large amounts of water while holding eyelids apart. Washing within one minute is essential to achieve maximum effectiveness. Obtain medical attention IMMEDIATELY after flushing.

Skin Contact: Flush skin with water for at least 15 minutes. Remove contaminated clothing; wash before reuse. If irritation is still present, seek medical attention IMMEDIATELY.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention IMMEDIATELY.

Ingestion: DO NOT INDUCE VOMITING. Give 1 or 2 glasses of water or milk. Never give anything by mouth to an unconscious individual. **Obtain medical attention IMMEDIATELY.**

Most important symptoms and effects, both acute and delayed

Harmful if swallowed, toxic in contact with skin. Causes severe skin burns and eye damage.

SECTION 5 – Fire Fighting Measures

Flash Point: Not applicable.

Upper/Lower Explosion Limits in Air: Not applicable.

Auto Ignition Temperature: Not applicable.

Suitable Extinguishing Media: Will not burn; use materials appropriate for surrounding fire. Do not get water inside containers. Do not apply water stream directly at source of leak. Do not use a heavy water stream. A direct water stream will cause violent splattering and generation of heat.

Unsuitable Extinguishing Media: Water jets are not recommended in fires involving chemicals.

Special hazards arising from the substance or mixture: Hydrogen fluoride silicon oxides Not combustible. Ambient fire may liberate hazardous vapours.

Fire and Explosion Hazards: Not flammable. Under conditions of fire this material may produce: silicon oxides; hydrogen fluoride; tetrafluorosilane. Decomposes above 108 °C (227 °F)

Protective Equipment and Precautions for Firefighters: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in a positive pressure mode. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers and tanks cool. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Product of Decomposition or Combustion: Unknown.



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SECTION 6 – Accidental Release Measures

Personal Precautions: Review safety precautions before proceeding with cleanup. Use appropriate personal protection equipment. Do not touch spilled material. Soak spills up with acid compatible absorbent material because neutralizing can lead to an exothermic reaction that will generate vapors. Restrict access to area until completion of clean up.

Caution: Ventilation should be provided in enclosed areas. Dike area around spill to prevent spreading, and use absorbent material to pick up spill.

Environmental Precautions: Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up: Notify the appropriate environmental authorities. Note that spills may need to be reported to the National Response Center ((800) 424-8802)

SECTION 7 – Handling and Storage

Precautions for Safe Handling

Handling: Avoid all eyes and skin contact and avoid creating or breathing vapor and mist. Vapor and mist can be created by exceeding boiling point (277°F). Wear recommended personal protective equipment. Ensure there is adequate ventilation, such as outdoors. Keep away from heat and open flame. Employ good maintenance practices to prevent leaks. Use good process control measures to prevent releases. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

Storage: Reacts with many metals to produce flammable and explosive hydrogen gas. Keep away from strong acids and bases, chlorites, organic peroxides, combustible materials, and metals. Store in dry, cool area. Store in a well-ventilated place away from heat and sources of ignition. Large tanks should be bermed and electrically grounded. Avoid using glass, metal, or stoneware containers. Empty containers may contain hazardous residues. Protect label and keep it visible. Do not transfer to metal containers.

SECTION 8 – Exposure Controls and Personal Protection

Exposure limits

Ingredient	Exposure Limits
Hydrofluorosilicic Acid	ACGIH TLV (United States, 3/2020): TWA: 2.5 mg/m ³ , (as F) 8 hours. OSHA PEL 1989 (United States, 3/1989): TWA: 2.5 mg/m ³ , (as F) 8 hours. OSHA PEL (United States, 5/2018): TWA: 2.5 mg/m ³ , (as F) 8 hours. OSHA PEL Z2 (United States, 2/2013): TWA: 2.5 mg/m ³ 8 hours. Form: Dust



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Engineering controls

Ventilation Requirements: Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other: An emergency shower and eyewash station should be available, tested, and be in close proximity to the product being handled in accordance with provincial regulations.

Personal Protective Equipment (PPE)

Respiratory Protection: Use a NIOSH-approved cartridge respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. Use respirator approved for acid fumes and mist.

Eye Protection: Use chemical safety goggles and face shield. Do not wear contact lenses.

Skin Protection: Where there is possibility of skin contact, use the following as appropriate, to avoid skin contact: gloves impervious to material, apron, boots, hood, pants, and jacket. Maintain a safety shower with quick opening valves. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

SECTION 9 – Physical and Chemical Properties

Appearance	Water white to straw yellow liquid	UEL	N/A
Odor	Slightly acrid	LEL	N/A
Odor Threshold	N/A	Vapor Pressure	24 mm Hg at 25°C
pH	1.5 - 2.0	Vapor Density	N/A
Melting Point	-18 - -20 °C (-1 - 4 °F)	Specific Gravity	1.2 at 24°C
Freezing Point	N/A	Solubility	Completely soluble
Boiling Point	136 - 163°C (277 - 326°F)	Partition Coefficient	N/A
Boiling Range	N/A	Auto-ignition Temperature	N/A
Flash Point	Not Flammable	Decomposition Temperature	N/A
Evaporation Rate	N/A	Viscosity	N/A
Flammability	N/A	Molecular Weight	144 g/mol

SECTION 10 – Stability and Reactivity

Reactivity: Reacts with metals to form flammable hydrogen gas. May be corrosive to metals

Stability: Stable at normal conditions.

Hazardous Polymerization: Will not occur.



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Hazardous Decomposition Products: Thermal decomposition yields hydrogen silica tetrafluoride and hydrogen fluoride gas.

Incompatibility: Metals, glass, stoneware, alkali, strong concentrated acids.

SECTION 11 – Toxicological Information

Acute Toxicity

LD50 oral rat = 125 mg/kg.

Harmful if swallowed.

Toxic in contact with skin.

Causes severe skin burns and eye damage.

Chronic Effects: Prolonged absorption of fluorides may result in fluorosis. Symptoms include changes in bone density, ossification of ligaments and mottling of the dental enamel.

Carcinogenicity: None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Effects: No reproductive effects are known.

Target Organs: No data available.

SECTION 12 – Ecological Information

Ecotoxicological Information: Acute toxicity to aquatic invertebrates: LD50 = 140 mg/kg.

Persistence and Degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available

Endocrine disrupting properties: No data available

SECTION 13 – Disposal Considerations

Product Waste: Dispose of waste contents and/or container in accordance with applicable local, regional, national, and/or international regulations.

Packaging Waste: Dispose of waste content and /or container in accordance with applicable local, regional, national, and/or international regulations.



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SECTION 14 – Transportation Information

DOT Shipping Name: Fluorosilicic acid

Hazard Class: 8 – Corrosive Material

UN Number: UN 1778

Packing Group: II

SECTION 15 – Regulatory Information

OSHA: Hazardous Corrosive Liquid – 29 CFR 1920.1200

OSHA Process Safety (29 CFR 1910.119): No

CERCLA: Hazardous Substance

SARA Regulations: 313 and 40 CFR 372: No

SARA Hazard Categories, SARA Sections 311/312 (40 CFR 370.21):

Acute: Yes; Chronic: Yes; Fire: No; Reactive: No; Sudden Release: No

Clean Water Act: Designated as a hazardous substance under Section 311(b)(2)(A) of the Federal Water Pollution Control Act; Ingredients are regulated by the Clean Water Act Amendments of 1977 and 1978. This chemical is subject to regulations regarding its discharge.

TSCA Inventory Status: All components of this product are listed as “Active” on the Toxic Substances Control Act (TSCA) Inventory.

California Proposition 65: No

Right-To-Know Lists: Massachusetts, New Jersey. This substance does not contain nor is manufactured with ozone-depleting substances.

Canadian Regulations: CPR: Very toxic, Class D; Corrosive, Class E; DSL: Listed

SECTION 16 – Other Information

Prepared by: Pencco Inc.

Issue date: May 19, 2022

Revision Date: February 8, 2024

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure.



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Pencco provides the information contained in each SDS, technical data sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) in good faith and makes no representations as to its comprehensiveness or accuracy as of the date of publication. The SDSs, TDSs, and product information brochures are referred to collectively as the "Data Sheets". It is the responsibility of the user to obtain and use the most recent version of the Data Sheets. Each Data Sheet relates only to the specific product designated therein and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information are beyond the control of Pencco, Pencco expressly disclaims any and all liability as to any consequential damages or results obtained or arising from any use of the products or the information contained in the Data Sheets. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE DATA SHEETS OR THE RELATED PRODUCTS.

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-----END of SDS-----



Technical Data

Hydrofluorosilicic Acid

Product Name: Hydrofluorosilicic Acid
Alternate Names: Fluorosilicic Acid, HFSA
25% H₂SiF₆
Industrial Grade

Chemical Analysis	Typical	Guarantee
H ₂ SiF ₆	23.0-26.0 %	23.0
H ₂ SiF ₆ , as F	18.2-20.6 %	
Heavy Metals	< 0.02 %	
Phosphates, as P ₂ O ₅	0.2 %	
Lead, as Pb	1.0 ppm	
Iron, as Fe ₂ O ₃	70 ppm	
Iodide, as I	16 ppm	
Arsenic, as As	6.0 ppm	

This product is NSF Certified to ANSI Standard 60.

Maximum dosage for potable water treatment is 5 mg/L.

Physical Data	
Appearance	Water white to straw yellow
Weight, g/mol	144.09
Weight, lbs/gal	10.3
Specific Gravity	1.23

Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Pencoco	REQUESTED BY:	Ms. Sarah Duffy
CLIENT PROJECT:	HFS 2023 Lab	PURCHASE ORDER NO:	90309
LABORATORY NO:	99008	REPORT DATE:	January 25, 2023
SAMPLE:	HFS - FT1-027S 2023-01-17 10.30		

TEST

RESULT

Trace Metals by ICP/MS. ASTM D 5673.c

	<u>Results. mg/kg</u>
Silver	<1.0
Aluminum	2.8
Arsenic	2.4
Boron	<1.0
Barium	<1.0
Beryllium	<1.0
Calcium	1.8
Cadmium	<1.0
Cobalt	<1.0
Chromium	<1.0
Copper	<1.0
Iron	3.3
Mercury	<1.0
Potassium	1.2
Lithium	<1.0
Magnesium	4.6
Manganese	<1.0
Molybdenum	<1.0
Sodium	2.0
Nickel	<1.0
Lead	<1.0
Antimony	<1.0
Selenium	<1.0
Tin	<1.0
Strontium	<1.0
Titanium	<1.0
Thallium	<1.0
Vanadium	<1.0
Zinc	<1.0

Cert # L22-141,C2021-03719

Quality Management System Certified to ISO 9001:2015, and ISO/IEC 17025:2017

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Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

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P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400
FAX: (281) 495-2410

CLIENT:	Pencco	REQUESTED BY:	Ms. Sarah Duffy
CLIENT PROJECT:	HFS 2023 Lab	PURCHASE ORDER NO:	90309
LABORATORY NO:	99008	REPORT DATE:	January 25, 2023
SAMPLE:	HFS - FT1-027S 2023-01-17 10:30		

TEST **RESULT**

<u>Parameter</u>	<u>Results</u>
Anions in Water by Chemically Suppressed Ion Chromatography, Fluoride, ASTM D 4327.a, %	19.99
Specific Gravity, ASTM D 1429	1.2181
pH of 1% Solution with Glass Electrode, ASTM E 70	<1.0
Color, APHA, Platinum-Cobalt Scale, ASTM D 1209	1.0

Fluorosilicic Acid, Hydrogen Titration Includes Free HF, AWWA B703.a

	<u>Results, wt. %</u>
HFSA as H ₂ SiF ₆	24.58
H ₂ SiF ₆ as HF	19.79
Free Acid**	0.20

**Free Acid other than Fluorosilicic Acid, expressed as HF.

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Mr. Ikenna "Ike" Ezeji
Laboratory Director



Cert # L22-141,C2021-03719

Quality Management System Certified to ISO 9001:2015, and ISO/IEC 17025:2017

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