JMN SPECIALTIES, INC.
1100 Victory Drive - Westwego, LA 70094
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PRODUCT BULLETIN

ASTM E1146

HYDROCHLORIC ACID 20° Bé

General Description

ASTM E1146 Hydrochloric Acid 20° Bé is a high-purity aqueous hydrochloric acid solution manufactured to meet the requirements of ASTM E1146 for industrial and laboratory applications requiring consistent concentration, quality, and performance. This Product is intended for industrial acid cleaning, descaling, metal pickling, pH adjustment, chemical processing, water treatment, and other industrial operations where dependable hydrochloric acid performance is essential. Manufactured under controlled quality procedures, this Product provides reliable chemistry, consistent strength, and predictable results for professional industrial users.

Features and Benefits

Manufactured to ASTM E1146 quality requirements for consistent industrial performance. Provides rapid removal of mineral scale, oxides, rust, and alkaline deposits while delivering dependable concentration and purity. Completely miscible with water for controlled dilution and process flexibility. Suitable for a broad range of industrial cleaning, pickling, chemical processing, and water treatment applications. Produced under an ISO 9001 quality management system to ensure lot-to-lot consistency and dependable product performance.

Typical Applications

ASTM E1146 Hydrochloric Acid 20° Bé is recommended for industrial acid cleaning, scale and rust removal, steel pickling, equipment descaling, pH adjustment, ion exchange resin regeneration, chemical manufacturing, water treatment, mineral processing, laboratory reagent preparation, masonry cleaning (where appropriate), and numerous industrial processes requiring ASTM E1146 quality hydrochloric acid. This Product is intended for industrial and professional use by trained personnel familiar with the handling of strong mineral acids.

Directions for Use

Use only in accordance with established industrial procedures. Always wear appropriate chemical-resistant personal protective equipment. When preparing dilutions, **always add acid to water—never water to acid.** Use corrosion-resistant transfer equipment and compatible storage materials. Following acid cleaning operations, thoroughly rinse treated surfaces and neutralize where required by the application.

Compatibility

Compatible with PVC, CPVC, HDPE, polypropylene, PTFE, rubber-lined equipment, fiberglass systems designed for hydrochloric acid service, and other acid-resistant materials. Do not use with aluminum, zinc, magnesium, galvanized metals, mild steel, hypochlorites (bleach), strong oxidizing agents, or strong alkalis. Contact with reactive metals may generate flammable hydrogen gas, while mixing with bleach or hypochlorites may release toxic chlorine gas.

Environmental and Regulatory Information

Prevent uncontrolled release to drains, waterways, or soil. Dispose of unused Product and containers in accordance with applicable federal, state, and local regulations. Users are responsible for complying with all applicable environmental, transportation, storage, and workplace safety requirements governing the use of hydrochloric acid.

The information contained herein is provided in good faith, but shall not create any warranty, expressed or implied, by operation of law or otherwise, with any respect to any product.
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Phone (504) 341-3749 Fax (504) 341-5868 or E-mail: sales@jmnspecialties.com

Physical Properties

Appearance	Clear to slightly yellow liquid
Odor	Sharp, pungent acidic odor
Specific Gravity	~1.15–1.16
Density	~9.6–9.7 lb/gal
pH	<1
Solubility	Completely miscible in water
Flash Point	None
VOC Content	0%

(Typical values; not a specification)

Quality Assurance

JMN Specialties, Inc. manufactures specialty chemical products under an ISO 9001 certified quality management system. Each production lot is manufactured under controlled procedures to provide consistent quality, dependable performance, and reliable compliance with applicable product requirements.

Availability

ASTM E1146 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

ASTM E1146 Hydrochloric Acid 20° Bé is a highly corrosive mineral acid and should be handled only by trained personnel using appropriate industrial safety practices. Avoid contact with skin, eyes, and clothing, and do not breathe vapors or mists. Use only in well-ventilated areas while wearing appropriate chemical-resistant gloves, protective clothing, eye protection, and a face shield where splash hazards exist. When preparing dilutions, **always add acid to water—never water to acid** to minimize heat generation and splattering. Avoid contact with incompatible materials including reactive metals, strong alkalis, oxidizing agents, and hypochlorites (bleach), as hazardous reactions or toxic gases may result. Keep containers tightly closed when not in use and refer to the current Safety Data Sheet before handling or using this Product.

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