TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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NEUACITH™ Series – NEUACITH BFA

Buffer Acid – Strong Buffering Capacity
Manufacturer: Tusi Haytham Bio Limited

Product Description:

NEUACITH BFA is a high-performance buffer acid designed to provide strong buffering capacity in textile dyeing and finishing processes.
It ensures stable pH control, uniform dye fixation, and consistent fabric quality, even under challenging process conditions.
Ideal for reactive dyes, cotton, blended fabrics, and other sensitive textile processes, it maintains process stability and color uniformity throughout the operation.

Key Performance Properties:

- **Provides strong and reliable buffering capacity.**
- **Maintains stable pH in dyeing and finishing baths.**
- **Enhances color consistency and reproducibility.**
- **Protects fibers from acid- or alkali-induced damage.**
- **Compatible with most textile auxiliaries and dye systems.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Active Content	≥ 45 % (as acid equivalent)
Density (25 °C)	1.05 ± 0.02 g/cm³
pH (1% solution)	3.0 – 4.0
Solubility	Fully miscible in water
Buffering Capacity	High, maintains stable pH under moderate alkali addition
Stability	Stable under normal storage and processing conditions

Application:

- **Add NEUACITH BFA to dyeing or finishing baths to maintain stable pH during processes.**
- **Typical dosage: as required to achieve target pH and buffering effect, depending on fabric and dye system.**
- **Ensure thorough mixing for uniform performance.**
- **Compatible with other textile auxiliaries; optimize dosage through lab trials for best results.**

Precautions:

- **Avoid contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong oxidizers or incompatible chemicals.**
- **Store in tightly sealed containers to maintain product quality.**

Packing Size:

Available in 25 kg, 60 kg, and 200 kg HDPE drums.

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months from date of manufacture in unopened containers.**
- **Check product label for “Best use before end” date.**

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: NEUACITH™ Series – NEUACITH BFA
Category: Buffer Acid – Strong Buffering Capacity